



Vol. 5.

Diary of insects, &c., chiefly
Hymenoptera
Collected by G. W. Stelfox
1932 - 1933.



SAORSCÁT ÉIREANN

Telephone No.:—
DUBLIN 62286.

ÁRD-MHÚSAEUM NA h-ÉIREANN
(National Museum of Ireland),

SRÁID CHILL DARA
(Kildare Street)

BAILE ÁTHA CLIATH (DUBLIN),.....19....

Ichneumon from Killarney district, NK.
named & returned to E. F. Bullock on
21. 2. 33.

Cochlichneumon sp. near *comitator*, cf. *histriogonus*
1♀. Sept. 1927. "Killarney." Same as my ^{Hlgx.}
♀ from near Woodstock, Kilkenny, July 1932.

Diaborus sp. (♂?) Same as my Ballyhenry ♀
"Killarney." July 1928.

Scolobates auriculatus (♂?)
"Lake shore, Kenmare Estate,
Killarney, July 1930."



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1/6

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Collected by C. W. Stelfox
1932 - 1933.



H. P. L.

List of hymenoptera from Kerry returned, then Miller,
to E. F. Bullock, on 4/11/1933. (W-W), calm later.

Rhyogaster anemipennis 2 or 2?? Tenthredopsis valley just
red & black ??; T. lilias brown ?? Lager, alder,

Tenthredella atra 1? T. ferruginea var. Pezomachus,
? or T. moniliata ? ? with pale stigma & on roadside.
all black, rather short. Antennae & just a ?? seen
trace of red on 4th-5th segment.

Metopius micratorius 2 or 2, Killarney, NK. k.

"Sept. 1927" & "Jul. 1928".

Amblyteles glaucatorius 1? with black scutellum. black, ? off oak.

"Woodlawn, Killarney. 4.6.30". NK.

"oratorius 2 or 2.

Ichneumon deliratorius 2 or 2.

Platylabus dimidiatus 1? ~~ANTBAGH~~ (2) 28.4.1931.

Ballast-pit, Killarney, NK. "5.8.29"?

Habrocryptus minutus 1?

"ANTBAGH" (2) 28.4.1931.

Arvagh!

(Also 2 small Proctotrupids unnamed!)

Chalcid - just with 1 specimen.

List of Hymenoptera from Kerry returned
to E. F. Bullock, on 4/1/1933.

Rhyogaster aucuparia 1 ♂, 2 ♀♀. Tenthredopsis
red & black ♀♀; T. "tiliae" brown ♀♀.

Tenthredella atra 1 ♀. T. ferruginea var.
? or T. moniliata ♀ ? with pale stigma &
all black, rather short. Antennae & just a
trace of red on 4th-5th segment.

Metopus micratorius 2 ♂♂, Killarney, NK.
"Sept. 1927" & "July 1928".

Amphytelus glaucatorius 1 ♀ with black scutellum.
"Woodlawn, Killarney. 4.6.30". NK.
" " oratorius 2 ♂♂.

Ichneumon deliratorius 2 ♂♂.

Platylabus dimidiatus 1 ♀ ~~ANBAGH~~ (P)
28.4.1931.
Ballast-pit, Killarney, NK. "5.8.29" (?)

Habrocryptus minutus 1 ♀

~~"ANBAGH"~~ (P) 28.4.1931.
Arvaagh!

[Also 2 small Proctotrupids unnamed!]



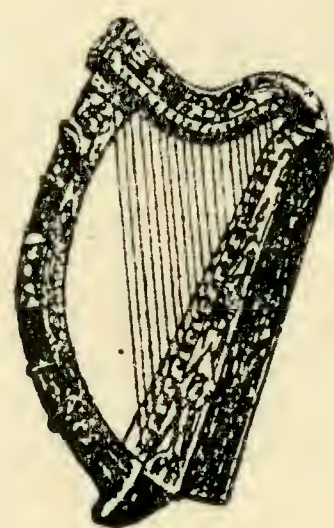
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BAILE ÁTHA CLIATH (DUBLIN),.....19.....



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SAORSTÁT ÉIREANN

BAILE ÁTHA CLIATH
(Dublin).

Canon J. Foster's captures 1932.

Bombus muscorum 3♂♂, 1♀. Gortan, Co. WD. Aug. '32.

Andrena jacobii 1♀. Saintfield, Co. DO. 31. 5. '32.

Halictus ^{freysenii} ~~calceatus~~ 2♀♀ " " "

Nomada hibernica 1♀ " " "

Megachile versicolor 2♀♀ Strangford. DO. June 1932.

Fly: Arctophila musitans. Gortan, WD. Aug. 1932.

Nomada marshamella 6♂♂, 1♀. Finnebrogue Co. DO.
30th May 1932.

Andrena jacata 1♂. " " "

Andrena albicans 1♀ " " "

Nomada ruficornis 1♂. " " "

Halictus freysenii 1♀ Gortan, WD. Aug. 1932.
P. T. O.

18th September 1932. Dull, chilly first, then milder,
rain at 2.0 pm. Windy in morning (NW-W), calm later.

Glenree, Co. WI. Scrub in tributary valley just
W. of Knockree. All beaten off hazel, alder,
oak or willow, except the larger & *Pezomachus*,
which was taken on *Carduus arvensis* on roadside.

Bombus agrorum ♂♂ & ♀♀. *B. lucorum* ♀♀ seen &

George on summit of Knockree.

Athalia cordata ^{✓ 5/3/33.} 2 ♂♂ beaten off oak.

Platylabus rufus, (?) Grey dark, semi-black, ♀ off oak.

Phaenocarpa ♀♀ common

Stilpnus gazeter? ♀. *Pezomachus rufus* ♂♂ on alder & hazel.

Leptocryptus ♂♂.

Pimpla ruficornis, *P. brevicornis* ♀, *P. ruficornis* ♂, *P. ruficornis* ♂.

Pimpla 4 outside 1 ♀. *Pezomachus* 1 ♂, *Pezomachus* 1 ♀.

Pezomachus ♂, *Pezomachus* ♀. *Pezomachus* ♂.

Platylabus ♂♂.

Homocidus pallipes, 3 ♂♂, 1 ♀ (1 ♂ certainly on *Salix*!).

Stilpnus ♂.

Chrysomelid - *guttulatus*? *mesoleucus* ♀.

2.

18.9.32 cont. Glencree, Co. WI cont.

Chrysomelids 4 spp. including *Stenotarsus* 100222, 22

Microlepis 22322

Alomya later? on *Salix* Camp. ph. *Chrysomelids* 223222, 22

Chrysomelids 223222

Chrysomelids 223222 *Blacus* 100222 *B. trypodonta* 22

Chrysomelids 223222

Chrysomelids 223222 *Tanyocampa* 223222

Chrysomelids 223222 *Chrysomelids* 223222

Chrysomelids 223222

23

21st Sept. 1932. A beautiful day, with clear sky & warm sun: cool E. breeze.

3.0 till 4.30 PM.

Slopes E. of lower reservoir, Glencasmole, Co. DU.

Bombus jonellus, beautiful fresh ♀ seen in den.

B. agrorum ♂♂ & ♀♀ plentiful on *Scabiosa* etc.

Stenobothrus culpatore, black ♀.

Chrysomelids 223222

Chrysomelids 223222

Chrysomelids 223222

Chrysomelids 223222

Oedemastix 223222

Stenobothrus 223222

Tanyocampa 223222

Chrysomelids 223222

Chrysomelids 223222

Blacus 223222

Rhyssalus 223222

Chrysomelids 223222

Chrysomelids 223222

25th Sept. 1932 A fine sunny morning, 11-12, but
very strong S.W. breeze; with heavy shower (dust) after
2.0 PM showers & much colder. A few insects taken
by beating, but too many & windy; rest taken with
net & most of the smaller fly taken in Alder swamps
by sweeping grass, *Carex lanigera*, Alder etc.

11-30 till 2.0 PM. Insects scarce flying.
Glencree, Co. WI. Tributary valley just west of
Knockree, as before.

Bombus agrorum a few, mostly ♂♂.

Campoplex large black & yellow ♀ seen, as before.
Pimpla maculator ♂♂. *P. tumida* ♂♂. *P. yellow* ♂♂.

Dilobatus protuberans 20 ♂♂ & 1 ♀. 0 off.

Stenomacrus ruficornis ♂♂, ♀♀ common. 5 off.

3 *P. ruficornis*! *D. ruficornis* 10.

Homocidus pallipes 1 ♂, 1 ♀.

25/9/32 cont. Glencree, Co. WI cont.
Stenomacrus ruficornis 10. *Homocidus pallipes* 1 ♂.

Campoplex 10.

Stenomacrus ruficornis 10. *Homocidus pallipes* 1 ♂.

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Stenomacrus ruficornis 10. *Homocidus pallipes* 1 ♂.

Stenomacrus ruficornis 10. *Homocidus pallipes* 1 ♂.

28th Sept. 1932. A beautiful day!

In aft. drove car to Greystown & stopped to collect at SE. corner of Glen of the Dorn, Co. WI., where the Forestry Dept. are vainly cutting down the oak-wood.

Bombus agrorum seen. *Athalia cordata* 1 ♂ (✓ 5/3/33)

Pimpla turionellae ♀. (✓ 5/3/33)

Phaedon ? 1 ♂. *Brachist* ? 1 ♂.

Phaedon ? 2 small red ones. *Phaedon* ? 1 small red one.

Stenomacrus ventralis ♀♀ on oak. S. 1 ♀ on oak.

Blacus humilis 1 ♂ & 3 of *humilis* 1 ♂. *Blacus* ? 1 ♂.

Dacnusa areolaris ♀♀ abundant on oak, & c.

Meteorus pulchellus 1 ♂. *Apanteles* ? 1 ♂.

Proctotrupid ? *Chalcid* ?

2nd October 1932. A very stormy day, NW gale, cool & keen, but almost all sunny, with just a skiff or two of rain. 11.30 till 3.30 pm. Insects very scarce!

Oak wood, on S. slope of Carrick Mt., E. of Glencady, Co. WI.

Bombus agrorum a few seen. *B. muscorum* a few ♂ or ♀ (✓) flew into motor near Ballysherry!

Pimpla quadridentata ♀♀.

Brachist ? 1 ♂. *Brachist* ? 1 ♂.

2.10.32.

Glencady, Co. WI., cont.

Campoplex ♀, small.

Promethes scutellatus ♀, in trap in wood.

[*Homocidus flavolineatus* (✓) ♀, flew into car near Killadream, WI.]

Mesochorus ♂. (✓ 5/3/33) *Mesochorus* ♂. (✓ 5/3/33)

Orthocentrus ♂. *Stenomacrus ventralis* 1 ♂ in trap.

Gyracampa affinis 1 ♂ in trap in corner of field. (✓ 5/3/33) *Gyracampa affinis* 1 ♂ in trap in corner of field.

Dacnusa areolaris 1 ♀ only. *D. gilvipes* 1 ♂ in trap.

Allura contracta ? 2 ♀♀ in woods. *Apanteles* ? 1 ♂.

Colletes braconius ? 3 ♀♀; one large, two smaller; in woods.

Apanteles 2 ♂♂.

Meteorus 3 ♀♀ in rocky field.

8.

5th Oct 1932. A perfect day! but sun too hot to permit beating with success. 3.0 till 4.0 pm.

Powerscourt demesne, Co. WI. Right bank of river just below deer park gate & for 1/4 mile N. M.S.S. saw one Bombus!

Stenomacrus ventralis ♂ & ♀♀ seen. I of ♂ in cage 11.
Aspilota pubescens 2 ♀♀. Phaenocarpa 1 ♂.

Chalcid basicornis 1 ♀ in cage 11.
Phygadeuon curvicauda 2 ♂♂ & 1 ♀.
Meteorus fulvipes 2 ♂♂, and Phaenocarpa seen near by sheep.
M. unicolor? 1 ♀, dark m.
Dacnusa areolaris 4 ♀♀ abundant. Aspilota 4 ♀♀.
Syrphoctonus officinalis 1 ♀ in cage 11. by sheep.
Aphidius variegator 1 ♂. Phaenocarpa fulvipes 1 ♀, small.

9.

9th Oct 1932. The second of two perfect days, with very low barometer.

Coast for one mile N. of Balbriggan, Co. DU.

Most insects taken by sweeping in lane to shore 1/2 mile N. of old tip - but house or along coast or in small salt-marshes (where Glaux maritima grows!) north of this.

Bombus terrestris 1 beautiful ♀ seen.

B. lapidarius ♂ (seen by George!). B. agrorum seen.

Phaenocarpa 1 ♀, 2 ♂♂.

Dacnusa giltipes 1 ♀. D. areolaris 3 ♀♀ - lane.

Aspilota pubescens 1 ♀. A. cf. mellea 1 ♂, (small ♂, black ♂, (small ♂).

Phaenocarpa unipunctator 2 ♂♂.

Opius caesus 1 ♂.

Blacus humilis 1 ♀.

Dacnusa areolaris 1 ♂, 1 ♀.

Syrphoctonus officinalis ♂ & ♀.

Apanteles pubescens 1 ♂.

A. cf. mellea 1 ♀.

23rd October 1932. A glorious day after a cold wet night. Few insects seen till 2.0 pm.

Meeting of the Waters, Co. WI. Noon till 3.30 PM.

All but 3 or 4 ichs taken in Barth Howard woods east of railway: the exception from scrub on left bank of river above Barth Howard gate.

Bombus lucorum 1 faded ♀ running herself.

Vespa vulgaris a nest by y. bridge in full swing & many seen in it.

Pimpla instigator 1 ♀ seen. *P. gaudridentata* 3 ♀♀ examined.

Stilpnus ♂♂ frequent, 1 ♀. *Microgaster pumilus* 1 ♀.

Hemiteles ♂♂ frequent, 1 ♀. *Phaenocarpa* 3 ♂♂.

Mesochorus 2 ♂♂.

Platygaster 1 ♀.

Stenobothrus 1 ♀.

Chalcid 1 ♀.

Proctos 1 ♂.

Dacnusa ♂.

Opis (cf. *fulvipes*, but) 1 ♀.

Metacoelus cf. *fulvipes* 2 ♀♀.

24th October 1932. Taken by the Ockley & Box, just W. of the
Hagley, Little Bury, Co. WI. On day after?
Shore side of river. *Blacus ruficornis* 2 ♂♂.
But also many small ones.

Proctos 3 seen (1 ♀) = *Exochus* also 3 ♀♀, *Exochus* 1937.
Stenobothrus 1 ♀ of the same = *Stenobothrus pubescens* Westw.
Exochus 1939. A.W.S. - The species
mentioned to F. J. J.

30th October 1932. Severe westerly gale, cold, sunny with showers in afternoon.

Drove A. Farrington to upper lodge of Powerscourt Deerpark, Co. WI, to study local moraines & channels there & on Calary plateau. On sheltered side of reservoir quite calm & very warm in sun & many diptera flying, on other side of same the wind was terrific & water lashed to spindrift & trees swaying with the gale. The following ichs beaten out of silver fir (?) at W. end of old dam between the reservoirs: -

Stenomacrus ventralis ♀♀ abundant (none kept!)

S. pubescens 1 ♀.

Orthocentrus *zackariae*? 1 ♀.

O. smaller ♀ (same sp.) or *Orthocentrus* or another of

13th November 1932. A dull cold day with E. wind
at the end of ten days similar weather.
King William's Glen, Co. Louth.

Very nice ground & would repay working at other
seasons: also nice "wood" along west bank of the
Mattock River opposite Mellifont Abbey & indeed the
whole valley of the Mattock might repay working
as well as Tournay Hall demesne.

Almost all taken by beating iny *Horn* in Glen.
one or two taken by sweeping!

Vespa vulgaris seen at iny.

Daenusa areolaris ♀♀ abundant, 5 kept.

Aspilota ♀ with 15 joints to antennae.

Meteorus scutellator ♀. in iny. *Apanteles* 1 ♀.

Stenomacrus ventralis 1 ♂ & 1 ♀. *Hemiteles areolaris* 1 ♀.

S. ♀ with pale stigma like last, but compressed abd.

S. ♂ *Microgaster* 1 ♂. *Aspilota* 1

Proctotrupid 1 ♀. *Campoplegid* 3.

16th Nov. 1932. A fine cold day, E. wind, after a
very wet cold (NE) day on 15th.

Greystones Golf Links (at corner next Killineavrig) Co. WI.
All beaten off iny *Horn*!

16.11.32 cont. Greystones, Co. WI. cont.

Pezomachus rufipes 2 small ♀.

Orthocentrus protuberans ♀. *Abus* 2 ♂♂ with pale legs
& very yellow faces. sp. ? All noted on same card!

Stenomacrus ventralis 1 ♂ & 1 ♀.

Aspilota 2 ♀♀.

Plectiscus 1 ♀.

Hemiteles 2 ♀♀. 1 ♂.

Phaen. humilis 2 ♂♂ ♀.

Proctotrupid 2 small ♀♀.

20th Nov. 1932. A cold dull day, S. wind, dripping
in morning, clearing in afternoon & dry.

2.30 till 4.0 pm. Phoenix Park (in & around the Ferry Glen), Co. DU.

Pimpla maculator 2 ♀♀. *Campoplegid* 1 ♀.

Stenomacrus ventralis 1 ♂, 2 ♀♀. } none kept.

Daenusa areolaris ♀♀ abundant. }

Hemiteles 1 ♂, 1 ♀.

Tortured with rain & cold, but of the

Vespa vulgaris 1 ♂, several ♀♀ seen.

All beaten off iny
Horn!

27th Nov. 1932. A fine cold day, mostly sunny, but one thick shower between 12.30 & 1.30 pm. Wind stopped all beating: after two days gale & rain: wind NW & still very high.

King William's Glen, above Drogheda, Co. Lth.

Laenusa areolaris ♀♀ abundant. } Beaten off ivy blossoms
Colletes braconius 1♀ } on Tansley Hall wall.

Vespa vulgaris ♂♂ & ♀♀ seen.

Bombus lucorum? ♀? seen by Daisy & George.

Sun very hot in shelter at foot of Glen!

[Spent afternoon in wood on right bank of Mattock R. opposite Mellisport Abbey, Co. ME. There snail *Vitrina pyrenaica* Fer. quite common: several also taken in dry roadside ditch under hedge on N. side of Slane Rd. just west of bridge above abbey. Very good ground along Mattock R. both above & below this bridge & great shelter from W. winds. also excellent ground in open oak wood at upper end of King William's Glen.]

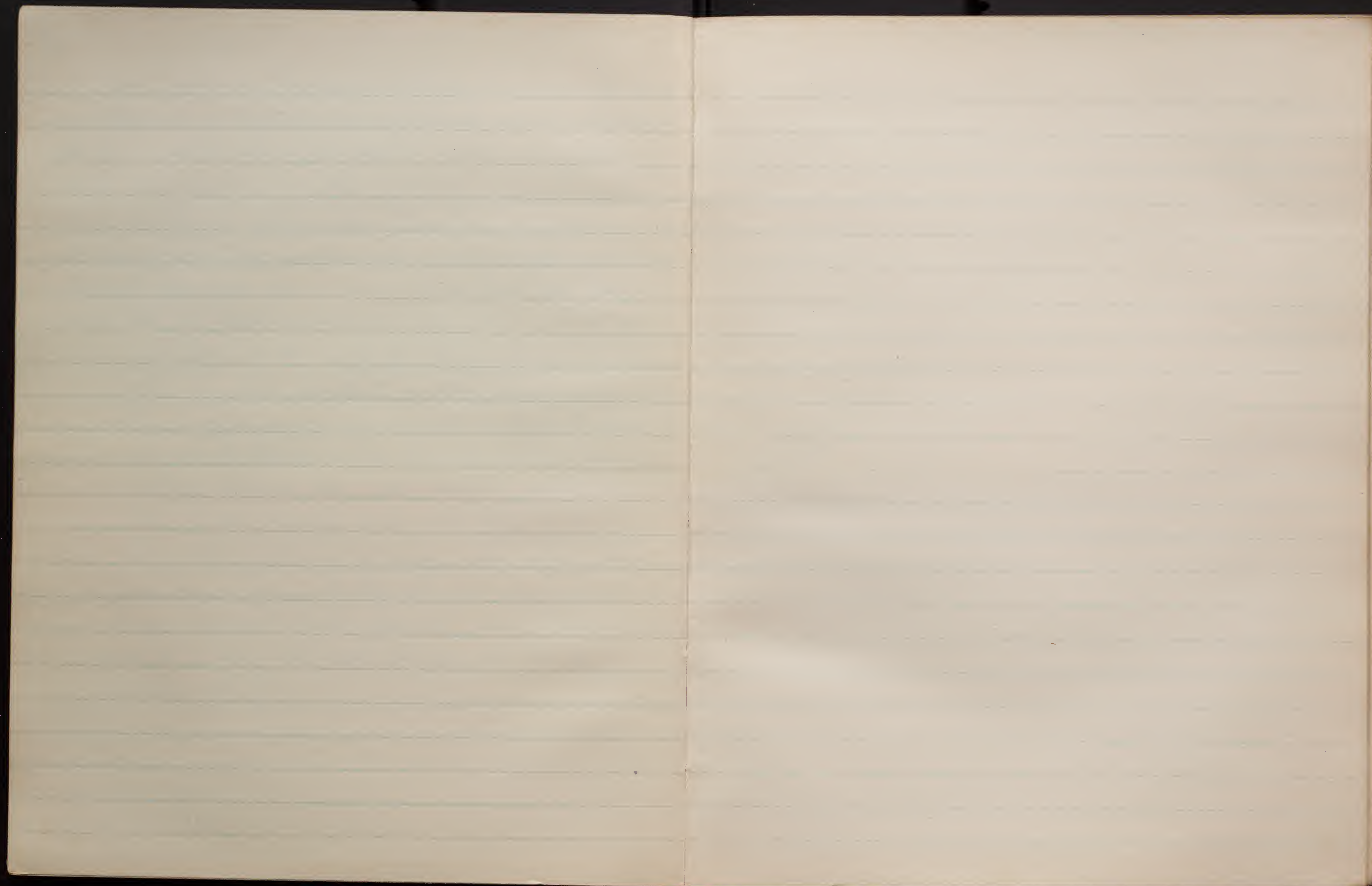
4th Dec. 1932. A beautiful day, with hot sun.

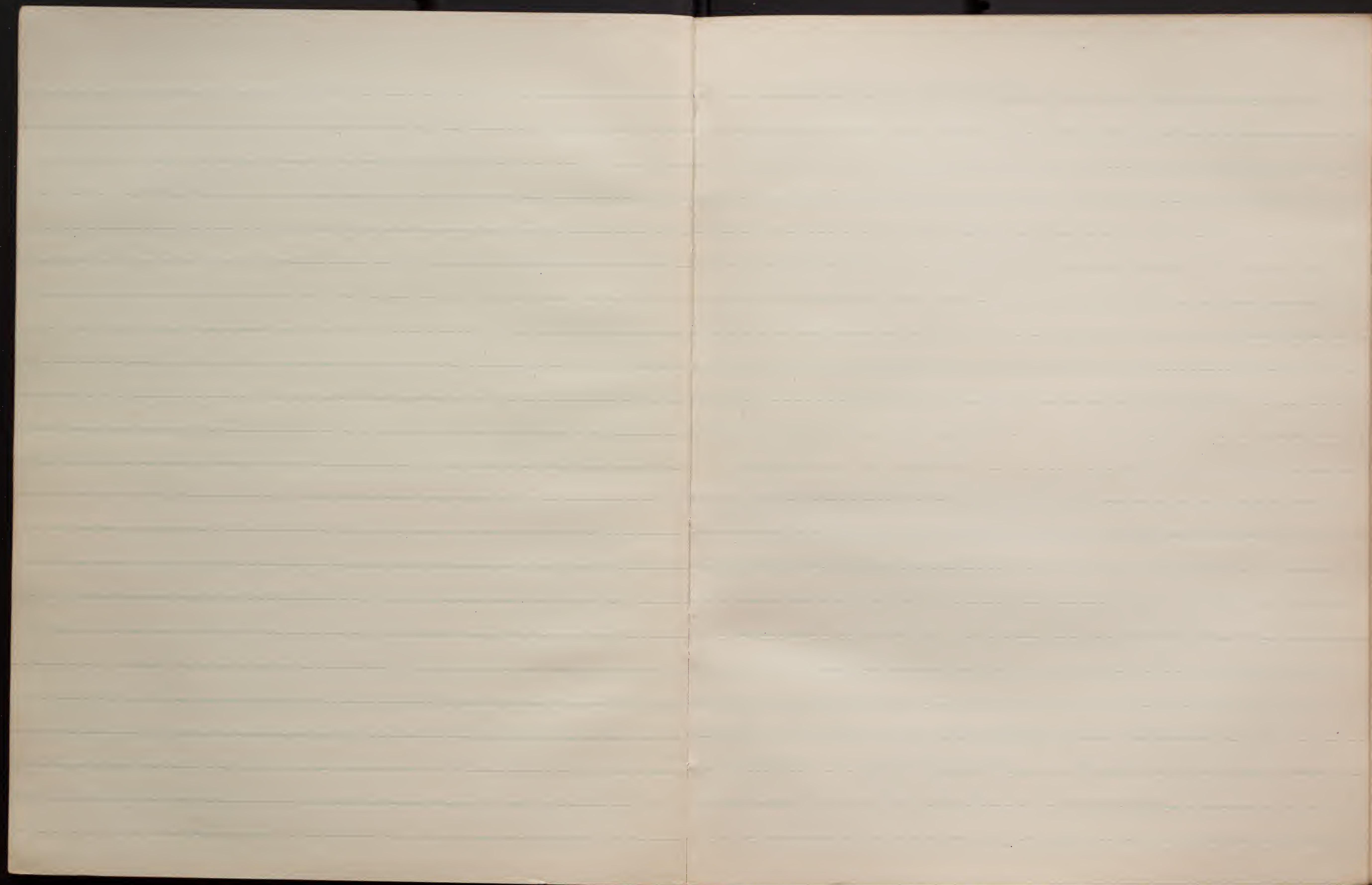
Wasps (*V. vulgaris*), ♀♀ & 1 ♂, abundant at ivy near Willington Ho., Templeogue, 11.0 AM - noon. Co. DU.
Also *Laenusa areolaris* ♀♀.

14th Dec. 1932. Very cold & dry, after similar ten days with E. wind.

One ♀ ^(*Vespa vulgaris*) was seen at tree near Willington Ho., Co. DU.
& several *Laenusa areolaris* beaten off ivy.

[13. Several gales followed & terrific rain for 36 hours on 19th - 20th - 21st Dec.]





1933.

The year opened a mild & sunny, & it was also at times, but turned cold & dry about 24th and 25th Jan. -
January, 1st frost with the first snow on the 2nd with E. wind & frosty night.

The first Snowdrop in garden seen on 15th Jan, though we had seen one at Templeogue about 15th Dec. previously. Two Crocuses out in Bennett's garden on 23rd Jan, but ones which got much more out nearly out & now delayed by cold snap.

30th Jan. 22. Two Crocuses (yellow) out in front garden!

Cold, stormy, with very mild spells (32° F. at night 1st night) mid Feb.

Almonds all out about 10th or 11th Feb. One in Kinnings Rd. out about 8th Feb. Calandria & Coltsfoot out by the roadside, below Rathfriland, on 11th Feb (MSE & George!)

16th Feb. '33. Sax. Oppositifolia from Bererensagh, LD. in flower in front garden. One flower in Swardon plant in back garden on same day!

19th Feb. 1933. A glorious sunny day after a hard frosty night: very cold in shade (N.E. wind) but sun very hot.

South Cliffs of Horth, below Earlscliff, Bally, Co. Du. Went, with P. O'Mahony, to look for more specimens of brachypterous species of Trichoptera, taken here in Jan. 1928 at roots of sea campion.

All the following taken by shaking overhanging clumps of campion, grass &c; at base of cliffs, from high-water mark to six or seven feet at most - above this.

Hemiteles 1 ♂, red & 1 ♀, brown & light.

Pezomachus repens? 1 ♀

Trichoptera many, 33, all sent to Mead.

Chalcid 1 ♂, 1 ♀

Proctos small spec. about 10 size of the Trichoptera!

Also many beetles &c; but no spec. of the woodlice.

Elanus purpureus seen on this occasion. It was then usually not abundant.

23rd - 24th - 25th Feb. Gale from N.E. with very heavy snow all over country!

1st March. White browns out under front window: Purple browns out 5th March.

5th March 1933. Spent day N. of Portlaoine anghar, Co. Du. but no Hymenoptera taken, though searched for by "shaking" on cliffs & rocks.

8th March 1933. Pheonodona out at 14 Clareville Rd., Du.

12th " " Anemone apennina out " " " " " "

12th March 1933. A most perfect day, as also on the 11th, with no wind & a cloudless sky after a slight frost. Drove to Deputy's Pass, Co. WI., but stopped on the way for a few minutes each at (1) Kilmartin church, where one Bombus (? lucorum or agrorum) seen & one Peacock Butterfly; then to (2) Ballyhenry quarry where nothing out; next to railway crossing at Brundangan, where another (the usual!) Peacock Butterfly; then on to N. end of Deputy's Pass, where had lunch at N.W. edge of wood, but no Hymenoptera seen. After lunch drove on to south end of Pass & spent the afternoon about old garden, as usual: here saw a third Peacock Butterfly, one of Andrena (on ash tree near foot of the side glen, where it was twice seen, (? apicula or clarkella: too large for praecox!)) & Daisy saw another Bombus ♀. No willow yet out at any places where we stopped but some seen out at & below Eniskerry, Kilmacanogue marsh, &c. No Hymenoptera seen flying except those mentioned above but the following were beaten at Ballyhenry & in the afternoon at Deputy's Pass: —→ P.T.O.

19 12.3.33 cont. Ballyhenry + Deputy's Pass, WI, cont.
Beaten out of Spruce at Ballyhenry.

Pimpla eximinator 2♀♀.

P. maculata 3 or 4 ♀♀.

Beaten out of various trees at Deputy's Pass.

Pimpla eximinator ♀♀ frequent, out of Spanish Fir,
Ivy, Holly.

Pimpla elegans 1♀ out of Spanish Fir.

P. pomonae 2♀♀ out of Ivy or Holly beyond ridge glen.

Perilissus 1♀ out of Ivy or Holly beyond ridge glen.

Campoplegid 1♀ " " "

Habrocyptus minutus 1♀ out of Spanish Fir, where
one taken on previous 11th Sept. (1932).

Bracon 1♀ out of Spanish Fir

B. 1♀ out of oak, with dead leaves & branches

B. 1♀ out of Ivy or Holly.

Rhyssalus circumscriptus 1♀ out of Ivy or Holly.

Brachymeria

Chalcids abundant in Spanish Fir, & various
by *Myrmica* abundant. 1 or 2 kept only

16th March 1933. Fine, slightly cold, but perfect
(about exactly the same as 1932; 70° in day morning 1933)

17th March 1933. A poor day: wet till 11.30 AM.

Some sun in afternoon in Co. Wick.

Left home at 1.15 & drove via Lucan & Glane
past Prosperous to Bog of Allen, where saw
ground N.S.D. Westropp goes to for *aurinia* larvae
& which he recommended. Not much taken with
it & no birch scrub or other native trees!

some pine plantation, some sallows planted along
ditches & plenty of virgin bog. Near Glane, KD,
stopped at several willows, well out here, & saw
about 9 *Bombus terrestris* ♀♀ & about 3 *B. lucorum* ♀♀
but nothing else.

19th March 1933. A bad day, wet (snow in hills) &!

During a short break in afternoon drove to
Enniskerry, WI, where willows well out & in marsh
saw two *Bombus* ♀♀ (1 certainly *lucorum*). In the
glen beat one ♀ *Campoplegid* out of ivy, but
foliage too wet to hope for good results.

22nd March 1933. A very wild day: gale from SE. but not
cold, dry, with considerable sun in aft. but

Drove to Enniskerry, WI, but nothing seen by a *Cynipid* &
Bombus lucorum ♀ & *B. terrestris* ♀ (George & Daisy).

19 On 24th March, A.A. Lacey reported having already seen
Bombus terrestris, *lucorum* & *muscorum* ♀♀ at Shankill, DU.

< 26th March 1933. A perfect day here & here, but
dull & cloudy "inland" on the hills.

Drove to Ballyhenry, Arvoca & back to Sulphur Mine
for lunch; then to Deputy's Pass, where spent the
afternoon. All G.W.I. Chiff-chaffs common!

Ballyhenry 10.30 - 11.0 A.M.

Bombus sp. heard. *Andrena clarkella* ♂♂ & ♀ seen.

Daenusa areolaris swept off rushes in grassy
marsh, S. of Ballyhenry (between main & Killoughter roads)

Bombus lapidarius? ♀ watched by Daisy & George

She reported that it had two yellow bands: it
flew away just as I reached the spot & I only saw
the red-lapidarius-like tail: it was on a willow.

Daenusa areolaris swept here also.

No samples seen!

Arvoca, old sand scarp just outside Ballyhenry gate.

One honey bee seen on yew: Tiger Beetle ♀
seen, but nothing else, except 1 Small White Butterfly (D. & G.)

Sand pit just started at end of ramp next
road.

— See I.N. Journal for Oct 1955.

26/3/33 cont.

Sulphur mines, N. of Arvoca, G.W.I. 12.30 till 2.0 pm.

Bombus lucorum, *agrorum* & *muscorum* 1 ♀ each.

Verpa rufa 1 ♀ on *Salix* ♀.

Andrena praecox ♂ on ♂ *Salix*.

[This willow not seen before on 25/3/1933.]

Pimpla maculator ♀ beaten out of Sestel Pine.

Small Hawk ♀ seen (10.15)

Deputy's Pass, G.W.I. 2.15 till 4.15 pm. All sunny.

Bombus terrestris (1), *lucorum* (several), *lucorum* (1),

agrorum (1), *muscorum* (1) seen.

Andrena praecox 1 ♂ on *Salix* above "garden" entrance (10.15)

A. sp.? 2 ♂♂ seen on same tree as on 12th March

but seemed smaller & more like *praecox*.

Pimpla maculator several ♀♀, only 1 kept.

P. elegans 4 or 5 ♀♀ at Laurel

Phaenocarpa several at Laurel.

Small Hawk ♂ seen at Laurel (10.15)

Large Red & Black ♀ with bright red abdomen seen at Laurel

Wet leaf litter just starting!

19 29th March 1933. Afternoon. Very windy, cool, little sun.
Foot of Glenasmole (below lower dam & above Mrs. Doyle's), Co. Du.
on both sides of river.

< Bombus terrestris 1♀, lucorum ♀♀, jonellus ♀♀, at Sabia.

No other hymenoptera seen.

Small Tortoiseshell Butterfly seen in scrub on right bank
of river: I believe the first I have seen since the spring of
1931!

2nd April 1933. Very windy, with falling barometer; cold
in Dublin with strong W. wind: much milder in
Wicklow & wind S.W. Considerable sun!
Drove to foot of Glennalur, via Ballyhenry &
Rathdrum, Co. Wicklow. Stopped a few minutes at
Ballyhenry but nothing seen except B. lucorum;
then on to Greenan, where spent most of the day
exploring what the forestry dept. have left of the
Ballyteige oak-wood. This remnant amounts to the
western margin of the oak-birch-holly wood (left to screen
the conifer plantation) & the marshy area full of Sabi-
birch & alder in the valley of the "Ballyteige" stream
which joins the Avonbeg, below Greenan Bridge. Here
much good ground for later in year.

2/4/33 cont. Ballyteige wood & valley, N. of Greenan,
Glennalur, Co. WI., cont.

Bombus terrestris 1♀, B. lucorum & jonellus many ♀♀, all
on ♀ Sabia trees in valley. B. agrorum 1♀ in roots.

Dolerus aeneus ♂♂ frequent in dry oak-wood!

Cryptopimpla anomala, many ♂♂, 1♀, flying about holly,
Vaccinium, & c in oak-wood.

No other hymenoptera seen! Very good ground for later
in the year!

5th April 1933. Dull & windy, but much warmer.

Drove to Bishopscourt Ho. (N. of Kill) (=1) & on
to Sallins, Co. KD., where spent an hour by the
canal & sandpit on the railway 1/2 mile N. of
station (=2).

Bombus terrestris 1♀ at 1. B. lucorum ♀♀ at 1 & 2.

B. agrorum 1♀ at 2.

Andrena albicans very fresh ♂♂ at 1 on Sabia, & c.

Red Andrena ♂♂ at 1 (? just out of hibernation) at 1.

Blackthorn well out in Co. Dublin, not really out at
Sallins.

Two Small White Butterflies seen!

No sign of life in railway gravel pit except a Wild Duck on nest
amongst burnt grass on steepest part of scarp.

19 9th April 1933. A quite dull & almost useless day after a fine week. Almost-raining in Dublin in morning & no real sun till 6.0 pm. First day of Summer Time!

Down, with Palmer, to Monasteranen, Emo Park & on to canal near Woodstock House; then back to Lt. Heath, Dunamase, Stradbally, Athy & home. All collecting done in Queen's Co. except at 6.

1 = Canal bank; marsh & hedges 1 1/2 miles S.W. of Monasteranen. Very nice sheltered ground!

2 = Boggyheath & plantation in Emo Park.

3 = Sand-pit long disused, about a mile N.W. of Emo Park entrance (E. side of demesne!).

4 = Sand-pits, used & partly disused near Woodstock House (see list of 17.7.1932!).

5 = Old quarry near Dunamase.

6 = Moat of Ardskull, N. of Athy, Co. KD.

Bombus terrestris ♀♀ at 1, 2 (on Gorse! G.M.S.), - 3.

B. lucorum ♀♀ common. *B. jonellus* ♀ on Salix at 1.

B. agrorum ♀♀ at 2 & 3.

B. lapidarius ♀♀ at 1 (George) & at 4 (Palmer). ^{*Pentapleura distincta* 2♀♀ at 1 & 4.}

Andrena praecox ♀♀ only seen. On Salix at 1 (Palmer).
In burrows at 3, common! Burrows at 4? this species.

Willow trees here at 1 & 2.

Queen's Co. cont. 9.4.33.

Andrena albicans ♂♂ only at 1.

A. clarkella ♀♀ on Salix at 2, 3 & 4 (Palmer).

[*Salix purpurea* 100 at 6, in depression in field.]

Amauronematus rufatus (V.R.C.P.) 100 at Salix at 1 (Palmer).

Small ich. at Salix at 1 (Palmer). *Diprion* group!

Hemiteles ♀ taken out of ground at 2.

12th April 1933. A fine day, much cooler than previous week, with keen N.W. breeze & little sun: only three good hours in afternoon. 3.0 till 5.0 PM. ^{Queen's Co. 1933. 1934.}

Marsh between roads, N. of Enniskerry, Co. WI.

Bombus lucorum ♀♀ only seen, but villas all out of flower.

Andrena albicans ♂♂ seen, only.

Dolerus madidus 100. *D. ligatus* 1♀. *D.* 100.

Tachinomyia Portensis? 10, 12 on Salix.

100 at 1? 100 *Hemiteles*?? 100 *Chalcid*?

Chalcid?

Cynipid *decoloratus*? 1♀ taken out of Salix.

Dacnusa *areolaris*? 100 on *Salix* at 1 (Palmer). ^{100 on *Salix* at 1 (Palmer).}

Aphidius 100 on *Salix* at 1 (Palmer).

13th April 1933. A fine sunny day, but with chilly E. wind.
cooler than previous day after a slight frost at night!
Afternoon, 2-30 till 4-30: almost all sunny, yet chilly.

March at Enniskerry, Co. WI., a previous day!

Bombus terrestris 1 ♀ seen. *B. muscorum* 1 ♀ seen.

B. hortorum 1 ♀ seen on primroses.

Andrena albicans ♂♂ abundant about *Salix*: 1 ♀ seen running in marsh.

Dolichopus madidus 3 ♂♂ 1 ♀ taken, a few other ♂♂ & 1 ♀ seen.

D. oblongus? 2 ♂♂ 2 ♀♀. [No sign of *D. ligatus*!]

Empria pumila ^{RELP.} 1 ♂ on E. side of stream near road.

Xyela julii 1 ♀ beaten out of *Salix* below H. Chestnut on W. side of stream, where car usually left below sign post.

Orange-tip butterfly, ♂, in marsh!

Very few insects out owing to keen E. wind.

13th April 1933. Evening, 7.0 till 8.15 pm.

Drove G.S. Allen to Old Baron, GU., to see his planted "nests" for *Bombus*: one possibly occupied, the other not.

Sand Martins in numbers flying over Godden at usual place.

On 11/14/1933 E. O'Halloran collected some ♀♀ ants at Rush, Co. DU., which I believe are *Lasius niger*! AWS.

14th April 1933: Good Friday! All sunny: but cool E. wind, very keen & dry air, & few insects about.

Drove John Barrington & A.M. Grogan to Arvoca & back, where stopped at meeting of the Water & the Deputy's Pass, Co. WI.

[*Apanteles* 1 ♀ flew into car near Barrickmin, GU. at 11 AM.]

1 = Sulphur Mines at Arvoca: 12.0 noon till 1 p.m.

2 = Meeting of the Water: woods below Castle Howard: 2.0 till 2.0 pm.

3 = Deputy's Pass: old "garden": 3.30 till 5.0 pm.

Bombus lucorum ♀♀ seen at 1, 2 & 3.

B. hortorum at Primroses at 3, several ♀♀ seen.

B. agrorum & *B. muscorum* 1 or two ♀♀ only at 1 & 3.

Prilithyrus distinctus ♀♀ at 3.

Andrena albicans ♂♂ abundant at 1, 2 & 3.

A. junci fresh ♂♂ at 3.

Halictus rubicundus 1 ♀ at 1.

Nomada viridis ♂♂ at 2. *N. meridionalis* 1 fresh ♂ at 3.

Dolichopus ^{nigratus} 1 ♀ at 1. *D. myosotidis*: 1 ♂ in woods at 2.

Empria ^{RELP.} *tudens* 1 ♀ at 3. *Empria* ^{RELP.} *tudens* 1 ♀ at 3 (ANG)

Oecophora ^{RELP.} *aureolaris* 1 ♀ swept at 1.

Campoplegid sp. 2 ♂♂ common at 3 & 1 on road (ANG)

Euclyptus 1 at 3. Vol. 1 ♂ & 2 ♀ 1 ♂ & 2 ♀ at 2.

Holly Blue ♂♂ at 2.

16/4/33 cont. Colkinstown, Co. WI., cont.

Between one & two dozen small hymenoptera swept of
grasses & sedges &c.

Ichneumonidae

Proctos. = *confinis* with first Nixon in letter of 4/4/1938.

Stenomacrus 19 mtd. has distinct scutellum & groove!

Phidippus 100 *Proctos.* 9 *Ichneumonidae* 8

Proctos.

16/4/33 cont.

3.0 till 5.0 pm. Marsh & sand pit 1/2 mile
S.W. of Ballitore, Co. KD.

Bombus terrestris 1 ♀, *B. lucorum* several ♀♀.

Psithyrus distinctus ♀ seen.

Andrena albicans ♂♂ & fresh ♀♀ seen.

A. nigroaenea ♂♂ common & very fresh.

Halictus calceatus & *freycineti* ♀♀ identified.

Nomada marshamella several ♂♂.

16/4/33 cont. Ballitore, Co. KD. cont.

Ichneumonidae. *Compilatus* red & black *Compilatus* ♂ & ♀ - mtd. 1 ♂.

Stenomacrus 19 mtd. 3 ♂♂ =

Proctos.

Stenomacrus 19 mtd. 3 ♂♂ = *Stenomacrus* 19 mtd. 3 ♂♂ = *Stenomacrus* 19 mtd. 3 ♂♂ =

Stenomacrus 19 mtd. 3 ♂♂ =

Stenomacrus 19 mtd. 3 ♂♂ =

Proctos.

Stenomacrus

[17.4.33. *Bombus muscorum* ♀ in garden at 9.0 a.m.: torpid!
14, Glavinilla Rd., Ballitore, Harold's Cross, 84.]

19th April 1933. A bright day with strong, dry, very
keen East wind & little shelter anywhere.

Drove via Balbriggan to the Boyne, collected in
King William's Glen at New Bridge, Co. LH. & home
via New Bridge, S. bank of Boyne, & Ashbourne.

11.0 - 11.30 AM. N. bank of Broad Meadow Water, Co. DU.

Triclistus

Sigalphus

10

} *Bombus* //
harshum bees.

P. T. O.

19/4/33 cont.

12.0 noon. Stopped at Julianstown, Co. LH. (?) & spent 25 minutes in beautiful marsh on left bank of river below village, but saw nothing except one ♂ Daenusa areolaris in swampy place (not kept!)

12.45 till 2.30 pm.

King William's Glen, Co. LH.

Andrena albicans ♂♂.

A. cineraria: a great colony (M.D.S. & G.M.S.) on left bank of river half way up glen, just above 1st cottage, nesting in stiff dry sandy boulder-clay near top of bluffs opposite the cottage. ♂♂ very abundant, 1 fresh ♀ taken. ♂♂ also seen on Lesser Bellandine flowers further up glen by the river & road. This colony belongs to the early form.

Homada 1 ♂ beaten (& escaped): probably H. livida.

Halictus rubicundus 1 ♀, with pollen, with A. cineraria.

Blennocampa tenuicornis 1 ♀ swept in marsh by stream.

Hyplocampa 1 ♀ " " " "

Euclyptus fontinalis 1 ♂ swept " " " "

19.4.33 cont. King William's Glen, LH., cont.

Euphorus pallidipes? 3 ♂♂ swept in marsh.

Opius? 2 ♂♂ on George's knee at lunch.

Daenusa areolaris ♂♂ & ♀♀ frequent in marsh: 4 kept, on one caught very strongly & slender stigmata!

Aphidius? ♂.

Chalcidophorus auripunctatus 3 specimens kept out of last lot.

19.4.33. Stopped at old quarry, S. of New Bridge, Co. ME.

2.45 till 3.0 pm.

Andrena nigroscens ♂♂ common.

A. jactata 1 very fresh ♀ on Dandelion seen.

Swallow!

Also stopped several places on way home, but nothing seen or swept owing to keenness of the wind!

21st April 1933. A fine day, nearly all sunny, sun in view, not so cold. E-NE wind, light.

Drove to Ballyhenry & stopped at marsh beyond quarry & slacks on hills; after lunch on to Ballylusk, all Co. WI.

23rd April 1933. A moving day, after a wet night (the first real rain for nearly two months!). milder; considerable sun.

Drove to Ashford & then via Nun's Cross to Aghowle, where collected in valley for half an hour (=1) & on to Garryduff Cross-roads, where stopped for another half hour (=2): then on to Clara oak-wood (=3): All Co. WI.

12 noon till 1-30.

Marshy valley at Aghowle (=1) & marshy fields & willow stream at Garryduff (=2), Co. WI.

Bombus lucorum ♀♀. *B. jonellus* ♀♀ & ♂♂ on *Salix*.

B. agrorum 1 ♀ at 2.

Prithyrus quadricolor 1 ♀ on *Salix* at 1. *B. distinctus* ♀♀.

Andrena albicans ♂♂ seen.

Olerus aeneus ♂♂ common at 1. *D. olivaceus* 2 ♂♂ at 2.

Ichneumon lugens ♀ at 1. *Amanonema* sp. ♀ very close to *viduata* & like a large *Andrena* in R.C.P. in 1934. dated 31.1.34. Benson in March 1936 considers this pair to be probably *A. viduus*, see letter of 19.3.36.

Dacnusa areolaris ♂♂ & ♀ at 1.

23.4.33 cont. Oak wood at Clara, above sand-flat & between latter & Brouhyne river. Co. WI. 2.0 till 5.0 pm.

Much sun, but several storms & winds wet.

Bombus lucorum ♀♀ & *B. jonellus* ♀♀ & ♂♂ abundant on *Vaccinium*.

Prithyrus distinctus ♀♀ frequent.

Andrena lapponica ♀♀ at *Vaccinium*.

Nomada lapida 1 ♂ on *Salix*.

Amanonema sp. *distans* ♀ 1 ♀ on *Salix*, below sandflat.

" *amplius* ^{R.C.P.} 1 ♀ beaten off *Salix* below sandflat. Hatched before.

Xyela julii 1 ♀ beaten off *Salix* below sandflat.

Pachynematus abductus 1 ♀. & R.C.P.

Pimpla turinella ♂ seen & released.

Most like *tristis*
off Holly or Ivy.

Steronema ventralis ♀♀ beaten & released.

Phaenocarpa scutellaris ♀♀ (B.W. 1934).

Euphorus pallipes ♂ & ♀ seen.
Phaenocarpa ?

24th April 1933. A dull day, with SE. & SW winds & heavy rain in Dublin all morning, after a very wet night. Although not at museum did not go out till 2.30 pm. : then drove to Golden Hill, Co. WI, (near Blessington). On ^{E. slope near} summit of this hill, between 900 & 1000 ft. alt. is a larch plantation, with a few stunted Scots Fir & Spruce, with open glades. In one of these glades I took with the hand a ♀ *Dolerus ligaster* & beat a ♀ *D. aeneus*. Also beat out of Spruce & Scots Fir the following.

Bombus lucorum 1 very fresh looking, torpid, ♀
Vespa austriaca 1 torpid ♀, another seen flying
V. vulgaris several torpid ♀♀.
Pimpla maculator many ♀♀: not kept.
P. examinator 1 ♀, very black, hind tibiae all black except for small white ring.
Orthocentrus fulvipes ♀♀ numerous.

When the day is considered this was a great haul & it is a curious fact that around this hill there was no mist & the roads were dry, while everywhere else the hills were shrouded in misty rain.

26th April 1933 aft. 2.30 till 5.0 pm.

Golden Hill, Blessington dt., Co. WI, as on 24/4/33.

Very windy (S to SE.), dull, misty rain at first, then fine, warm in shelter, several blinks of hot sun. *Andrena cineraria*, ♂ clinging to rush in shelter belt on N.W. side of hill facing Tinode Ho. The first specimen ever taken by me in Dublin-Dicklow area as early as April!

Dolerus haematodes 1 ♀ in same shelter belt on rushes: taken by George.

D. ligaster 6 ♀♀. One of these swept off rushes in shelter belt with above: fine taken amongst larch & Scots Pine on E. side of summit of hill (all beaten out of conifers except one seen flying). There 1 ♀ taken on 24/4/33: one of these beaten by Miss G. C. Scott & another given to her.

About a dozen *ichneumon* beaten out of Pine & larch (2 by Miss Scott).

Pimpla maculator ♀♀ common: none kept. *P. examinator* 1 ♀.

P. elegans 1 ♀. *P. cf. ...* very small & simple frons tibiae. (if *fulvipes*, but all frons yellowish between hairs & not red!)

Pachyneurina ♂ off larch

Phaenocarpa ? 1 ♂ (Miss Scott)

Several *Chalcid* spp.

Stenomacrus ventralis 1 ♀. *Orthocentrus radiatus* several ♀♀ seen.

27th April 1933. A glorious morning & at 9.0 A.M. I saw
1 fresh ♀ *Andrena jaesi* running busily on a black-cornus
bush in garden at 14 Clareville Rd., Harold's Cross, DU.
While several ♂♂ also seen dashing up & down.

[First sawfly in motor house emerged on 23/4/33 (1 ♂ *Phaenocarpa*
from Bunduff L., Co. SL.) & 26 & 27/4/33 (2 ♂♂ *Centistes*
from Larkham at Bundoran, ED.) [Also 1 ♂ *Apanteles*
from cocoons given me by Rev. K.M. Dunlop, of Athy, KD.

28.4.33. ♂ *Aspilota rufipes* (or near this) taken in garden at Harold's Cross
DU., examined & released: the first ich seen in garden 1933.

30th April 1933. Very dull, chilly NE wind & jam
in Dublin, rain in places; fine, warmer, & almost
sunny at times, but only a few minutes sun all day
at Raheen.

Dunlavin
Drove via Naas & ~~Kildare~~ to marsh & stream
near Raheen, Co. WI.; between Tynte Park &
Curry's Bridge, 6-7 miles N. of Baltinglass.

Bombus lucorum, *terrestris* (1), *agrorum*, *muscorum*
& *terrestris* (1) ♀♀ seen, but rare.

Psithyrus distinctus several ♀♀ seen.

Andrena albicans one or two ♂♂ & 1 ♀ beaten off
Salix.

Swallows & Swifts at Harold's Cross in morning.
Swallows' nest seen near Raheen.
Cuckoo & Bonaparte heard!

30/4/33 cont. Raheen, Co. WI. cont.

Dolerus madidus 2 ♀♀. *D. ^{nigratus} ~~madidus~~* 2 ♀♀.

D. possileensis 2 ♀♀, 1/4 mile below bridge.

D. haematodes 2 ♂♂. *D. pigratus* 1 ♂.

Dolerus vestigiatus 1 ♂.

Enicospilus ♂♂ common in marsh about *Speraea*.

Chalcid 2 ♂♂ = *B. tenuicornis* ✓ 1 ♂. *Chalcid* *Empria pumila* ♀ ✓ 1 ♂.

Three sawflies beaten off *Salix*. *Hoplacampa* *rubricornis* 1 ♀?

On tree off *Salix*.

Pachyneurina 1 ♀? In marsh, also *Pachyneurina* 1 ♀

About 1 dog off of *Salix*, mostly kept in marsh.

Homocidus obscuripes 1 ♂: the first *Basilid* seen in 1933!

Attractodes *tenuicornis* 2.

Dacnusa areolaris ♂♂ & ♀♀ common. *D. gilvipes* 1 ♂ near bridge.

D. ~~areolaris~~ 2 ♂♂ & *D. lateralis* 1 ♂ in drain at top of field.

Aspilota *terrestris* ? ♂♂ on one card, 4 ♂♂ & 1 ♀ on a second, 1 ♂ on a third, 1 ♂ on a fourth.

Ephedrus 1 ♀? *Aphidius* 1 ♂.

Cynipid.

May
7th April 1933. A fine day, after a wet night & heavy rain in morning, at 10 AM, following a wet & sunless week during which most of the local bumble bees must have been killed off. Not much sun till 1 pm, then very hot & late afternoon nearly all sunny but with cool ^{north-} easterly breeze.

Drove to Naas & stopped at canal just beyond the town (Limerick Bridge) on Newbridge road; then to Kileullen, where spent an hour in marsh 3/4 mile E. of village; then on to Gilttown House, where collected along edge of shelter belt at north side of demesne for a few minutes; & finally on to marsh at Rahen, Co. WI, on 30/4/33. All other localities in Co. KD.

11-30 till 12.0 noon. Canal bank, N. of Limerick bridge, Naas, Co. KD. Mostly sunny; N.W. wind, strong. *Rhyogaster anceps* amongst nettles, etc., in shelter of hedge.

Quercus agrifolia 3 or 4 swept along margin of canal: 1 ♂ kept only.
Aphidius 1 ♂
Antaeon sp.? 1 large ♂ swept off bird, but crushed & thrown away!

7/5/33 cont. 12.45 till 1.45 pm. Some sun.

Marsh 3/4 mile E. of Kileullen, Co. KD.

Dolichopus (2 species) D. ♂ (2 species), very little seen.

Agrotis 1 ♀

Bracon 1 ♀ *Aphidius* 1 ♂

Chalcid

Pimpla

2.0 pm. Shelter belt along road at S. side of Gilttown House demesne, Co. KD.

Antaeon 1 ♂, very small, beaten off crab apple tree.

Hermetia 1 ♀ beaten off blackthorn.

Rhyogaster anceps seen!

2.30 till 5.30 pm. Marsh at Rahen, near Carrig-yorra Bridge, Co. WI, on 30/4/33. Much sun, with N.E. wind: too windy for sweeping.

Bombus lucorum only 1 or 2 ♀♀ seen. *B. agrorum* ♀♀ seen.

Psithyrus distinctus a few ♀♀ seen.

Andrena albicans 1 ♂ seen.

Dolichopus *posillensis* 1 ♀ in marsh N. of poplars.

D. elongatus 1 ♂ (?) ^{*D. nigritus*} 2 ♀♀ in lower marsh (1/4 mile from bridge!)

D. laematodes, var., 1 ♂ near bridge.

Rhyogaster *rupestris* ♂ *Tomostethus* *luteiventris* ♀

7/5/33 cont. Rakeen marsh, Co. WI., cont.

Phaenocarpa vagans 1 ♀ in marsh.

Euphranta tridens var? 1 ♂ swept. (R.C. 10.)

About six ticks swept along stream at "Blackthorn Grove", 1/4 mile below bridge.

Euphranta sp.

Daenusa sp., also swept at stream side, under stated *otheris*
Daenusa areolaris ♂♂ + ♀♀, some very large, swept everywhere in marshy places & by stream. None kept.

D. *sp.* 1 ♀ swept in marsh 50 yards below bridge, S. of stream.

D. *sp.* 4 ♂♂ + 3 ♀♀ swept at edge of stream, amongst *Spirea*, *Carex*, *Ranunculus*, grasses & *Gen. Rivale*.
1 ♂ swept with last.

Carpilota pubescens 1 ♂ swept with last, with 3-jointed antennae.

A. nigrata? 2 ♂♂ + 1 ♀ swept just below bridge. { not a same as 1st but 2 ♀ same as 1st }

Proctos 1 ♀.

I now consider this ♂ as that of *Carpilota pubescens* because of the central longitudinal groove on mesonotum. In that I doubt the ♂ is a 4th ♂, *A. pubescens* the groove is reduced to a mere trace of the normal "antero-median groove". AWS 28/12/34.

8th May 1933. A fine afternoon, after a shower at 2.30 pm, but very stormy (N.W.).

The Ferry Glen, Phoenix Park, Co. Du.

Bombus terrestris 1 fresh ♀. *B. agrorum* ♀♀.

Andrena albicans fresh ♂♂ + 1 ♀ seen. *A. subopaca* ♂♂.

A. cineraria ♂♂ seen, ♀ taken on east side of glen.

Nomada marshamella + probably *lipida* seen.

Dolerus aeneus ♂♂ + ♀♀ very common about pond.

D. ~~*stigma*~~ ^{nigratus} ♂♂ + ♀♀ near pond.

Rhyogaster aucupariae, very common amongst nettles, &:

Monophadnus pallidus? 1 ♀, amongst nettles, about pond.

Pristiphora ruficornis? (?) ♂ with crippled wings swept by stream under last known, about pond.

1 ♂ swept up of isles, swept it with a net in marshy ground.

Spilophora? ♂♂ very common amongst nettles.

Stenobothrus ♂♂ *Meloboris* ♂♂.

Pentapleura *filicornis*? 1 ♂.

Proctos 1 ♀.

Daenusa areolaris 1 ♂ swept. 1 ♀ swept. 1 ♂ swept. 1 ♀ swept.

Carpilota pubescens 1 ♀. 1 ♂ swept. 1 ♀ swept.

Proctos 1 ♂. 1 ♀ swept.

8.5.33 cont. Furry Glen, Phoenix Park, DU. cont.
Proctotrypids.

Chalcids. One very curious yellow & testaceous ♀ with large
cloud on wings, swept above pond near stream.
= *Stenomacrus ruficornis* Kromb. fide Ferris 1939.
See also Furry Glen, 20.8.1936, same coloration taken! A.W.S.

10th & 11th May 1933. Fine evening.

Garden at Mayfield, 14 Harold's Cross, DU.

10th *Bombus terrestris* fresh ♀ on Ellis' apple blossom
at 7.0 PM.

Small ich seen on ^{red} black currant.

11th *Bracon variator* ♂; taken on black currant behind tub.

12th May 1933. A dull warm afternoon, no wind, ending
in drizzle in hills at 5.15 pm.

Slade of Sappart, Co. DU.: above & below old bridge. 2.30 till 5.15 pm.

Dolerus ligaster ♂ beaten off *Salix* by stream above bridge.

Tenthredo atra 1 ♀ beaten off *Sycamore* at 1.

Eupria tridens 2 ♀♀ swept at 2.

Euura salicis ♂ off *Salix* at 1.

Selandria flavus 1 ♂ at 2 in marsh: this has two left front tarsi one
small, the other normal size!

Nematus lucidus 1 small, dark, ♂.

12.5.33 cont. Slade of Sappart, DU. cont.

Zostrophus ruficornis 1 ♂ at 1.

Homocidus obscuripes 1 ♂ at 1, 1 ♂ at 2 in marsh.

A few other ichs swept at 1 or 2, or beaten off trees at 1.

Attractodes tenebrius 1 ♂.

Pentapleura 3 ♂♂ at 1, in marsh & swept with net in stream.

Diplosoma ? 1 ♀ (Prunus) swept from Phoenix Park 8/12/33.

Agasius 2 ♂♂ & 2 ♀♀ *Meloboris* ♂

Daenusa areolaris ♂♂ & ♀♀, but not common: 1 very small ♀ with.

D. tridens ♂ in marsh at 2. = *D. g. areolaris* group Nixon 9.11.1936

Chasmodon *conspicua* 1 ♂.

Gyrocampa affinis 1 ♂ at 2; *G. uliginosa* 1 ♂ by stream at 1.

Phaenocarpa conspurcator 3 ♀♀ at 1 & 2.

Aspilota 2 ♂♂ & 1 ♀ at 1; *A. ruficornis* ? 1 ♂ at 2.

Bracon small ones, black ones at 1 & 2.

14th May 1933. A very fine day, all sunny,
with slight E to NE breeze; but following a wet
day & poor weather not so much out as expected
& hardly any aculeation seen in The Murren.

Drove to Newcastle, on the Murren, & later on
to Deputy's Pass, Co. WI. Also stopped at Rocky
Valley for a few minutes, but only 1 small ich, 1
Aspilota & *Dacnusa areolaris* swept in marsh, &
the two former mixed with those from The Murren.

With C. Winkworth Allen?

The Murren, along railway, 1/4 to 1/2 mile S. of
Newcastle Station, Co. WI. 12 noon till 2.0 pm.

Bombus muscorum a few ♀♀ seen. *B. jonellus* ♀♀ fairly
common on *Lotus* flowers. *B. derhamellus* 1 ♀ seen.

B. agrorum a few ♀♀ seen.

Andrena albicans a few seen over at flower of *Scilla*
verna.

Halictus alpestris? 2 ♀♀ taken by Allen.

Proctosiphon chitellus 100 swept off grass.

Several *Trypoxylon* etc. swept at same place off grass
& nettles.

14/5/33 cont. The Murren, Co. WI, cont.

Pimpla 100 swept.

Many small spp. swept off grass by railway or in marsh
behind railway along drain parallel to railway.

Aspilota nervosa? 10, 1 ♀, small form. *A. distincta*? 1 ♂

A. n. sp.? 1 of *maculipes* Hal. but 1 ♂ with unfiled mandibles, 1 ♀, 2 ♂♂.

Aspilota or *Orthocentrus*? 1 ♂

Dacnusa areolaris frequent. none kept.

Dacnusa

Aspilota

Phaenocarpa

1 ♀

1 ♀

Alloea contracta, 1 fully winged ♀.

Rhyssalus

1 ♀

Promethes pulchellus 1 ♂ seen

14/5/33, cont. Deputy's Pass, Co. WI. ^{3.0}~~2.50~~ - 5.30 PM.

Bombus lucorum, *agrorum*, *lapidarius* (or *thurbellii*) ♀♀.
Prithyrus distinctus ♀♀.

Andrena ? 1 Allen

Halictus ? Allen

Nomada flammigata 1 fresh ♂. (from Allen).

Pamphilus *syriacus* ? 1 ♂ swept near river.

Athalia 1 ♂ (first seen 1933).

Pimpla *repens* 1 ♀ (on oak: another on laurel seen).
 (possibly recorded in 1933 - Allen & Allen)

P. maculator 1 ♂ on laurel

Schizopyga atra 1 ♂ on laurel.

P. sp. *detrita* 1 ♀.

Polyblastus ? 1

Trachusa ? 1

Neoclerus ? 2

Phytodietus 1 ♂

Stenobothrus 2 ♂♂, same sp. at oak

Co. f. p. l. a. 2 ♂♂

Orthocentrus 1 ♂

Exochus 1 ♂

Andrena *crassifemur* Th. & AHS. 1961.

M. l. l. l. ♂ ?

14/5/33 cont. Deputy's Pass cont.

Bombus ♂.

Colletes *truncatus* 1 ♂ near by river.

Apilota *nervosa* ? 1 ♂

Andrena 2 ♂♂, large ♂ on 1st of *Bombus*, in flower.

Scelus sp. ? (black, yellow & red) ♂.

16th May 1933. A fine evening
 garden at 14 Clareville Rd., Harold's X, 84.

Andrena *crassifemur* Th. & AHS. 1961. 1 ♂ on black laurel
 = *Andrena* *pumila* ♀ & ♂ (See note in letter dated 21.2.34) note Allen & Allen.

Homocidus pictus 1 ♀ on black currant at tub. 1st seen 1933

2 ♂♂

Bombus *terrestris* ? 1 ♂.

17th May 1933. Very hot, dull, almost-raining.
Aft. 3.0 till 5.0 PM.

Ponds by railway & right bank of R. Liffey
S.W. of Sallin, Co. Kildare.

3.0 till 4.15 pm. Margins of ponds (there is one at each
corner of bridge!) at NE & NW corners (= 1 & 2 respectively)
of first ^{railway} bridge on branch line to Naas, &c., S. of Sallin
station, Co. KD. Labelled Sallin
Co. KD. AWS
17.5.33.

Bombus muscorum ♀♀ frequently seen. *B. agrorum* 4♂.
[no *B. lucorum* seen at all.]

Lodermus vestigiatus 1♂ at 2.

Tenthredo picticornis? 1♀ at 1 on *Anthriscum sylvestris*. First seen 1937.

Leucophaea in *Salix* at 2 (S. *Salix*?) 1♂

Mesochorus sp. ♀ - *Drupis*? 1♂

Gyracampa uliginosa ♂♂ very common at or spot - at 2, on
Equisetum limosum &c.

G. affinis ♀ 1♂

Chasmodon conjugens 2 large ♂♂ at 2, with *G. uliginosa*.

Dacnusa areolaris 1♂?

Aspilota nervosa? 2♂♂. *Orthocentrus*? *pumila*? 3♀♀, small, mtd. in
some leaf.

Brachon spp.

Aphidius

Apanteles

Phaenocarpa *longipes*? 1♂ at 2, with *G. uliginosa*.

Euphorus?

Chelid with *Chelid* *sp.*

4.30 till 5.0 pm. Steep bank of R. Liffey, below road, just
below "boy Ford" (1" ord. map!), about 1 mile above the
main railway line cross river, S. of Sallin, Co. KD.
Tenthredo "arenata" 1♂ seen.

Macropis? 1♂? 1♀? 1♂?

Rhyssalus circumscriptus 1♂.

Aphaereta *nigra* *br.* 1♂? 1♀?

Gyracampa uliginosa 2 ♂♂.

Aphidius

3 spp. *longipes*? 1♂ *longipes*? 1♂

All swept!

Unga *tr.* near *Bombus* or *Gyracampa* *longipes*?

[♀ *Bombus agrorum* (1.1933) seen in garden, &c., on railway, 19.5.33.]

20th & 21st May 1933. Evening of 20th 24; morning of 21st 24. Warm & Sunny! Garden, 1/4 Clareville Rd. Dublin, as usual!

Crabro varius first seen on 20th, ♂♂ only: also on 21st

Crabro leucostomus? or *Pamphredon*? seen on 21st

Andrena jacobae ♂ seen on 21st. *Homocidus* sp. ♂ on 20th.

Allantia cinclis ♀ on 20th.

Odynerus parietinus ♂ in motor house trying to get out & evidently from nest in rafters. There ♀ seen building in 1932 but did not complete nest.

Red-bellied *Trypoxylon* in motor house on 20th: could not get it.

21st May 1933. An almost-perfect-day, till late afternoon, then shower & thunder about.

Drove to Athy & south along river to Ardagh House, then worked old sand-pit & marsh between road & river, Co. KD.; then to Tankards-town Bridge, then worked marshes, etc.; above & below bridge on Queen's Co. side of river (right bank), then via Castledermot & Ballyglan, to George's Bridge, over the R. Slaney, near Ballyhubbuck, Co. WI. There shown at 5 pm. Stopped collecting for the day.

♂♂ & ♀♀ mostly taken in car by George between Kilsallen & Athy, Co. KD. =

Two samples taken in motor, in morning, on road N. of Athy, Co. KD.

= *Phaenocarpa* sp. ♂ & ♂ *Phaenocarpa obductus*, v. *conducit* & RCLP.

21.5.33 cont. Ardagh, S. of Athy, Co. KD.

Old sand-pit & field N. of road to Maganey & marshy field & drain-sides between road & river Barrow!

Bombus agrorum ♀♀ only seen.

Labelled S. of Athy, Co. KD. AWS! 21.5.33.

Andrena saundersella 1♀ in sand-pit.

No other aculeates seen!

Halictus albipes 1♀ examined.

Homada muschamella seen.

Delia sp. 1♀ in evening of field (N. of sand-pit).

Dolerus ^{ferrugatus} ~~palustris~~ 1♂ ? AWS. 7/12/33.

~~*Stenobothrus*~~ *Stenobothrus* sp.

Abia sericea 1♂.

Tomostethus luteiventris seen: frequent.

Tenthredo arenaria seen.

Tenthredella mesomela seen.

Tenthredopsis

♂ & ♀ in sand-pit: near each other!

Cryptopimpla blanda 1♀. AWS. 7/12/33.

Oncophanes sp. ♂ *Oncophanes* sp. ♂

21.5.33 cont. Ardagh, Athy, Co. KD. cont.
Bracon swept in drain towards river.
Euphorus 3 amongst nettles &c in damp corner of field.

Apanteles
Gyrocampa affinis ♂♂ frequent in drain: 3 mtd.
Dacnusa 1 ♂, very like last species, but with totally different thoracic sculpture (darker), curved pleural furrow, & dark radial cell.

21.5.33 cont. 1.0 till 3.0 P.M.
 Swampy margin of River Barrow, right bank, above & below Tankards-town Bridge (between Athy & Maganey!), Co. Co.
Macrophya punctum-album. A beautiful ♀ seen on small Ash tree beside where we stopped motor on bridge (above), seen by M.D.S. & caught by George. This is so far as I know the first example of the genus taken in Ireland.

Tenthredo "areolata" seen at 1.
Empria sp. ? 1 ♀. See R.I.P. in litt. dated 21.1.34.
Mesochorus pallens, large ♀. R.I.P. 17.9.34.
Zostrophus rufiventris ♂♂ at 1 & 2.

& about 2 dozen smallish but well built ♀s of *Empria*.

21.5.33 cont. Tankards-town Bridge, Co. cont.
Mesochorus 2 ♂♂. *Spodoprius* 1 ♀.
Canisius latitator ?? 2 ♂♂.

Bracon ♂♂
Rhyssalus 1 ♂.
Ichneumon reunitor : no doubt at willows at 2.

Diaprius 1 ♀.
Dacnusa areolaris a few ♂♂ only seen: 1 (this ♀) at the strong pleural groove.
D. gilvipes 1 ♂ at 2. *D. areolaris* 1 ♀ (Nixon). (See note on 3/10/33).
D. cf. D. areolaris, new species? *D. areolaris* 1 ♂ (Nixon 3/10/33).
Gyrocampa affinis 2 ♂♂. *Chorebus conjugens* ♂♂: 6 mtd.
Aspilota *maculipes*? very small ♂. *Aspilota* 2 ♀.
Allon contracta 1 ♂.
Coelinius 3 ♂♂.

This is named "*D. areolaris* Nixon" by Nixon, 9.11.1936. A.W.S.

21.5.33 cont. 4.0 till 5.0 pm: then a storm!

Right bank of R. Slaney, above (=1) & below (=2) George's Bridge, where river leaves Glen of Imnel below Ballyhubbuck, Co. WI.

Andrena praecox ♀♀ (not very common) at a willow still in flower at N.E. corner of field bridge, or mound, above field.

G. sp. (? *subopaca* seen) in same place.

Homada flammulata fresh ♂♂ with last.

H. ruficornis ✓ 1 small ♂.

Ichneumon remitor 1 at above willow

Oenone sp. beaten, but lost, out of same willow.

Scaphium sp. dark & deep red ♂, on blackthorn bud at 2.30.

Pontania 3 ♂♂ at willow; 2 ♀♀

Basipoda ♂♂ *Hemiteles* ?? 1 ♂

Phaenocarpa ♀

Euphorus pallipes ?

[all above taken at 1]

" below " " 2 (swath in marsh at foot of 1st field on willow by river)

Bracon 1 ♀

Eucampa affinis ? 1 ♀. *Aspilota* sp. ♂♂ 1 ♀. *G.* sp. 1 ♀.

Microplitis 1 ♀. *Apanteles* 1 ♂

Chryseida 1 ♂

Hemiteles 1 ♂

Garden, 14 Clareville Rd., DU. 21.5.33, evening.

Cladius pectinicornis 1 ♂.

Pimpla brevicornis, small ♀. *Chrysopa incitator* 1 ♂ (not kept)

Mesoleius 1 ♂.

Oedematopsis rubicollis 1 ♀.

do - do - do. 23.5.33 evening.

Homocidus pictus 2 ♂♂. *H. ornatus* 1

H. flammula 1 ♀.

Mesoleius 1 ♂. *M.* 1 ♂.

25th May 1933. A cold blustering day with frequent showers from W. & N.W.

From Mr. & Mrs. Charles Oldham via Blessington & Wicklow Gap to Glendalough, then to oak wood 1 mile below Lough; & home via Garryduff & River Cross.

Only collecting done was in Oak wood, by Oremore & stream from Glendalough, where collected from 3.30 till 4.30 pm. Co. WI.

No *Bombus* seen during the day: not even on *Vaccinium* in oakwood. Mostly beaten out of oak!

Dolerus aeneus ♂ 1 ♂ beaten out of spruce.

Mesochorus sp. 3 ♂♂. *M.* sp. 1 ♂.

Ichneumon 1 ♂.

25.5.33 cont. Oakwood, below Laragh, Co. WI. cont.

Hermitules ♂.

Promethes cognatus 10, beaten out of Spruce.

Pyrostolus plicatus (MICH.) 1 ♀, off Hazel.

Rhopus *cruciatellus*? 1 ♂

Rhyssalus ?? ♀

Eutestipes extensor ♂ 10

26.5.33. Garden? 14 Clareville Rd., Harold's Cross, Du.

Aphidius 10 in kitchen.

♂ & ♀ in garden (9 on *Rhamnus cathartica*),

Amelanchier 10 on Red Currant

27th May 1933. Garden, Harold's Cross, Du.

Mesoleius ♂ on White Currant.

♂ & ♀, latter at Ellis's lilac, former at White Currant.

Bombus agrorum fresh looking ♀ at *Orchis purpurella* in tub; & at Snapdragon, later on.

Verpa germanica or *vulgaris* ♀ seen (as on previous occasions, but not noted).

28.5.33. At 10 AM took a ♀ *Adiantum* ♂ at first point of bridge.

29.5.33. Evening. *Mesoleius* ♀ & *Aphidius* in back garden.

28th May 1933. An almost perfect day: nearly all sunny, with gentle westerly wind (at Trim: E. in Dublin). Drove, with Palmer to sand-pit between Cross Keys & Batterjohu Big, on Trim road, Co. Meath. Here met Charles Farin, of Caran. Afterwards left them there & drove on to R. Boyne at Newtown Bridge, 1/2 mile below Trim (= Trim 1) & later down the river on right bank to railway bridge, 3 miles below Trim (= Trim 2).

Then back to sandpit & home.

Old disused sandpit, about a mile W. of Cross Keys, on N. side of road to Trim, Co. ME. 11 till 12.45 noon.

Bombus lucorum, *agrorum* & *lapidarius* ♀♀, a few each.

Psithyrus rupestris 2 beautiful ♀♀, very fresh (Farin in afternoon).

P. distinctus several ♀♀ seen.

Andrena jacoti ♂♂ & ♀♀. *A. albicans* several ♀♀, seen.

A. viridis ♂♂ & ♀♀ abundant. *A. villosa* ♂♂ & ♀♀ common.

A. nigrescens, old seen ♀♀ seen.

Haliastur rubicundus, *calceatus*, *albipes*, *pygmaeus*, & *leucopus* ♀♀ seen. *Sphærodon divinus*, *hyacinthinus*? & *affinis*? ♀♀.

Pomada menhamella ♀♀ common. *N. foodeniana* 1 ♀ (seen to C.F.)

N. bipida common. *N. hillana* ♂♂ (? ♀) very fresh.

N. flavipunctata ♂♂ seen & given to C.F.

Chrysus ignita 1 small ♂ seen.

28/5/33 cont. Sandpit at Cross Keys, ME. cont.

Tentredella atra ^{temula} mesomelas & ferruginea all present.

Tenthredo "aromata" seen.

Solenus picipes, ♀ & D. niger, ♂.

Tentredopini black & red ♀, black ♂.

Small Mark of = Prithorus tex ♂ IV. (P.C.L.P.)

Pamphilus hortorum ♂^(?) in crab-apple + another seen on same tree

Cataglyphis fortipes ♂♂ abundant in long grass. &c.

Homocidus pectoratorius very large ♂.

Pimpla similis? 1 ♀, taken by C. Davis in afternoon.

April via the 1/2

Exochus citipes ?

Penicillata 19

Wood White Butterfly
seen in mid-july

Rheza circumscripta

28th May 1933 cont. 1.0 till 2.30.

Left bank of R. Boyne between ruined abbey & river, just above

Newtown bridge, Co. ME, under the river stated! [= Trim 1.]

[no accents of interest seen!]

Teuthodopsis anemone 1 ♀ beaten out of barthorn on night: head of

Hyplocampa pectoralis, 1 ♀ with cast on right bank just above bridge

Anatolysia agnata 7 100 } Left in mud & rain

glaberrima ✓ 100

Supra sp. ? } See R.C.P. in
} Lett. dated 31-1-34. } 12

rest in mud by river.

Leptocryptus ♀. ♂ *Cryptus*

Homocidus ligonarius 107

Lochlania 107. Chalcidiusa conjugens ♂♂ by stream & river.

Gyrocamp uliginosa ♂♂ small f. *Dacnusa* hirta ? 1 ♂ & *D. areolaris*

398, one with head marked with
small dots that of *Calamagrostis* etc.

28th May 1933 cont. 2.45 till 5.0 pm.

Railway bank, pond margin, next larch, sycamore, or oak trees
at E. end of viaduct over R. Boyne, Co. ME. [= Trim 2].

Acalepta not particularly noticed, but at sycamore the
following seen or taken: -

Andrena jacobae, *nomade menhamella*, *Crabro dimidiatus* ♂♂
abundant, *G. palmipes* ♂♂ [♂ probably *G. leucostomus* also].

Pemphredon lugubris 1 ♂, given to C.F.

Tenthredella atra, *temula* & *mesomela* abundant.

Tenthredopsis ♂♂ seen. *Loderus vestigiatus* 1 ♂.

Lygocnemis larici? 2 ♂♂ ^{at larch} *Dineura stictica*? 3 ♂♂: all at larch, but 1 at sycamore.

Exochus ^{1 ♂} *glabripes* 1 ♂.

Exochus ^{1 ♂} *glabripes* 3 at sycamore.

Trichostema glabripes? 1 at small sycamore next oak.

Glypta ceratites 1 ♂ (1st seen 1933). *Chistopyga incitator* 2 ♂♂
at sycamore.

Myiarchus cinerascens 1 ♂.

Wood White seen
here also!

Orthocentrus? 2 ♂♂ 1 ♂ *Opis*. (Laid by pond.)

Gyracampa *affinis*? 1 ♂. (Laid by pond.)
Hymen (= all 3/10/33) says it is under the *gambusia* ♀.

30th May 1933. A fine day, with much sun, spoiled a little
by strong gusts of wind off hills & followed by heavy rain &
broken weather.

Deerpark, Powness, Co. WI, with E. O'Malley.

Left car on drive opposite sawmill & worked up rim & tributary
beyond the reservoir & back below cliff to deer shed near
fall & then to car. 11.0 AM till 6.0 PM.

Bombus lucorum 2 or 3 ♀♀ alone seen.

Halictus 1 ♀, probably *frugiper*, seen. *Andrena elbiana* 1 ♀ seen.

Verpa (*myrica*?) 1 or 2 ♀♀ seen. [No other aculeate].

Tenthredella atra, *mesomela*, *linda* & *perijacea* seen.

Tenthredopsis ♂♂ frequent, only 2 ♀♀ ^{dark tarsi} *flava* & red, ^{1 ♂} *truncat* ^{1 ♂} *homo*.

Dolichopus ^{1 ♂} *hematodes* 1 ♂ & *D. niger* 4 ♀♀ in upper marsh below reservoir.

D. albus several seen. *D. bimaculatus* 1 ♀ swept in wet marsh opp. saw-mill.

D. ferrugineus 2 ♀♀ in marsh-flat, E. of rim, & below shed

on deer, near fall, 1 ♂ & 1 ♂ behind taken on 1925.

Loderus vestigiatus 1 dark var. of ♀.

Dineura rufidorsata 2 ♀♀, taken out of bird.

Thrinax macula 1 ♀ E. O.M. *Platycampus leucodictus* 1 ♀.

Selandria ^{1 ♂} *furcata* 2 ♂♂. E. O.M. *Ametostegia pleuralis*? 1 ♂, large ♂.

Several small sp. taken out of oak, ♂ = *Formica* *pygmaea*? 1 ♂.

Pentapleura melanocera? 1 ♂.

Argy fuscipes 1 fine ♂ taken out of oak on bird.

30/5/33 cont. Deerpark, Bournemouth, W.I., cont.

Pimpla ~~terminalis~~ 1♂

Ephialtes tenuiventris 1♂, probably beaten out of oak.

Rhyssa perneator 1 tiny ♂, only about 10 mm. long, beaten off oak.

Xorides 2♂ 1♀ swept by E.O. under birch I had just beaten (beside some ear left!) beaten

Xylonomus ~~pilicornis~~ ^{irrigator} 2♂ flying round birch stump by river

also saw mill. [NB. All my Irish *Xylonomi* previously logged as *pilicornis* are really referable to *irrigator*. S. Perkins. *Derrispecimens* are *pilicornis*. AWS 19.12.33]

Helicostigmus (= *Brachycentrus*) *brachycentrus* 1♂, beaten (off oak?).

Cratichneumon annulator ♀♀ frequent.

Cratichneumon 1♂ taken by E.O. off birch.

Cratichneumon ~~tenuiventris~~ 1♂.

30.5.33 cont. Bournemouth-deerpark cont.

Paniscus 3 (2♂♂ 1♀)

Abruptus laticrus ? 1

Phaenocarpa ~~undulata~~ 1♂. *Phaenocarpa* 3 sp. 1♂ 1♀ 1♂.

Chorebus 1♂ 3 red & black.

Orthocentrus *partitorum* 2♂ 1♀. *Stenomacrus* of radiatus 1♀. S. sp. 2♀.

Homocidus pallipes 2♀.

Phaenocarpa 1♂ 1♀ (from mill).

Mesochorus ? large 1♂, black & small 1♀.

Chorebus conjugens 2♂, with one small & because of broken & distorted, on pit amongst water in upper wood below the bog hill.

Brachy

Phaenocarpa

Mesochorus

Phaenocarpa of conjugens ? 1♀

29th May '33. On this date Charles Faris reports having taken a ♀ *Bombus distinguendus* in a sand pit 1 mile on Dublin side of Kells, Co. Meath.

30th May '33. Saw one ♀ *Bombus terrestris* in front garden at 14 Clareville Rd., Harold's Cross, DU. And a ♀ in back garden on 1st June.

2nd June 1933. A perfect evening: very hot & soft: sunny.
Garden at 14 Clarendon Rd., Harold's Cross, DU.
6.30 till 7.30 P.M. Mostly at White or Red Currant.

Pteronidea ruficornis? ♀ seen, not-captured.

Pristiphora pallipes 1 ♀ ^{✓ R.C.L.P.} on White currant.

Hoplocampa crataegi ^{✓ R.C.L.P.} 1 ♀ on White currant on wall next road.

Pimpla maculator ♀ on Ellis's lilac; not kept.

Homocidus fuscicornis 1 fine ♀. *H. pictus* ♂♂ & ♀♀ (4).

H. picticornis ♀ seen at three! *H. picticornis*! 1 ♂ & ♀

Mesoleius ♂♂ & ♀. *Mesoleius* ♂♂ & ♀.

both on White & red currants.

Leptocryptus ♂ on lilac.

on lily.

Camptopoda large black ♂, long tibiae, on lilac.

small ♂ on white currant.

Oedematopsis scabripes 1 ♀.

Aspilota ruficornis ♂ seen in water lilies, not taken.

Apanteles ♂ on White currant.

Gyrinus on White currant.

Bombus terrestris 1 ♀ on columbine at 5.15 pm.

B. lucorum? 1 ♀ on juniper. *B. jonellus* 1 ♀ on M. leaf at 5.15 pm.

Crabro varius abundant. *C. leucostomus* several seen.

Vespa 1 ♀ seen (*uliginosa* or *permanens*).

4th June 1933. Very hot, soft, & almost-all sunny, with slight southerly breeze.

Drove to Ballyhenry & spent half an hour in marsh between main & Killoughla roads; then on to top of Clara oak wood, where spent day, Co. WI.

11.15 till 11.45 AM.

Marsh S. of Ballyhenry, Co. WI.

Dolerus palustris ♂♂ abundant along E. drain.

D. heermotodes 1 ♀ *Tetraneura* "variegata" 1 ♀

Loderus vestigiatus 1 ♂ black form. ✓

Empria ♂ 1 ♂, See R.C.L.P. in litt. dated 31.1.34.

Pentaneura ♂ large ♂

Glypta elongata 1 ♂, 1 ♀ in field E. of main marsh.

Glypta large ♂ with white marks: antennae broken.

Mesoleptus 1 ♂

78. / 4.6.33 cont.

12-30 till 6.0 PM. Clara oakwood, C. Hl.

Mostly collected around the Osmunds glade &
between that & the Croy Burn!

Bombus muscorum ♀♀ seen. B. lucorum ♀♀ seen.

[Vaccinium on & no Junellus seen!]

Prithyrus quadricolor several old worn ♀♀ seen (1 taken)
+ several fresh ♂♂ seen (1 taken in upper wood).

A few aculeatus seen on sand flat: now nearly destroyed by dragging timber across it.

Verpa austriaca ♀ seen in glade.

Hyloxonus ^{irrigator F.} ~~*pilicornis*~~ ♂♂ & ♀♀ abundant at small
dead, standing, tree stumps (3" to 6" diam.) S. of glade.

Horides albitarsus 2008, 399, taken; other mixed, at same stumps as last. On these stumps Ragium ^hbipunct common & Proctium castaneum seen: also many small Tipulid like diptera whose flight is imitated by the ♂ Xylonomus! ♂ & ♀ given to J. F. Perkins.

Pimpla (Scl.) *mandibularis*? 1 ♀. *P. maculator* ♀

Shilpua parvata ?

4.6-33 cont. Glare oakwood cont. WI.

P. uncinata ♀

Sacrusa [✓] seringosa ♀ just east of glade by stream

8. *Catantopus* 2 299 one in swamp at S. side of glade, other with last.

Aspilota 3 sp. (2000, 294)

Aphidius ephippium, implet. ♀ taken by George at Longport, West. resp. at
Lancaster, on bark of birch. Taken amongst & above young, green.
Opius 2 ♂♂ *Aphidius* large ♂♂

Opus 2

Bracon ♂. ? None seen when collecting!

Procto. with well knife-shaped abdomen. swept by stream. T. of plates.

7th June 1933. A scorching day & my last & sultry evening! 7.0 till 9.0 PM.

Semi-dry ponds, with sedges & horse-tails, &c., by bridge on ^{bank of} Hoar railway, just S. of Sallins, Co. KD; as before.

Botanophila 1♂ *Chironomus nigripes* 1♂ or 2♂

Procladius 1♂ seen. *Bombus lucorum* 1♂, *marginatus* 1♂, *terrestris* 1♂.

Psithyrus 1♂

Euclyptus 1♂ *Cryptus* 1♂.

Hemiteles 1♂

Gyrinops uliginosa 1♂ abundant as before, 1♂ on 7th.

G. affinis 1♂?

Dacnusa 1♂? 2♀ - 1 the 29-jointed & the other 30-jointed antennae. = *Dacnusa curtipes*, Nixon! Returned by Nixon so named 9.11.1936. A.W.S. One with 29-jointed antennae subsequently given to Nixon. A.W.S.

Phaenocarpa 1♂ (Nixon 3.2.33) (Nixon 2.2.33)

Pentapleura pumilio 1♂. *Aspilota* 1♂

Ademon decessens 1 (♂?). A.W.S. 21.12.33; compared with Holiday specimen!

Bombus 1♂ *B. lucorum* 1♂

Procladius

Aspilota 1♂

2 *Proctos*

Stilpnus

9th June 1933. Cooler, with keen breeze, NW.

2.30 till 5.0 PM with John F. Perkins.

Glencullen (Knockree), woods & open glade, Co. WI.

Trichodella tenuis 1♂ 1st off. seen: not noted. *Attila* seen

Selandria nana 1♂? 1st off. = *Empis* sp. (See A.W.S. on 21.1.34)

Empis 1♂

Urocladius 1♂

Pezomachus 1♂

Promethes scutellarius 1♂ *Promethes cognatus* 1♂

Merodon

Phaenocarpa

1st off. of stream in wood.

Aspilota 1♂

Pentapleura 1♂

Dacnusa 1♂ 1♂ of same.

Bombus

Red-tailed *Empis* seen in stream.

[On 8.6.1933 E. O'Meara collected for me 9 hymenoptera near Bandon at the S end of the Mallet, West Mayo, as follows: *Pentapleura pumilio* 1♂, *Aspilota* 1♂, *Chironomus* 1♂, *Meloboris* 1♂, *Euclyptus* 1♂, 1♂ 1st off. *Polyblastus*, *Phaenocarpa* 1♂, *Chironomus nigripes* 1♂ & *Pezomachus* 1♂. A.W.S.]

10th June 1933. Afternoon. Windy (NW), cool, mostly
 dull but some sun. First insects out. 3.0 till 5.30 PM.
 Tipper (VN) end of Glendine, Co. KD.

(between Rathmore & Blessington)

Most insects taken by sweeping rushes & in swamp
 round ponds W. of road above glen: but some taken
 off oak in woods after tea. With J.F.P.

Prionus glaberrima ♂♂ & ♀♀ abundant at 1. *Prionus muriceus* ♂ at 1.

Euphorus or *Stenus* 7.8 at 1. *Microplitis* or *Myrmica* at 2 & 3 at 1.

Opius ? at 1. (2000) *Blacus* or *Phaenocarpa* ♂ sp. at 2.

Dacnusa areolaris ♂♂, ♀ at 1. *D. lateralis* ♂♂ at 2. *D. areolaris* ♂♂ at 2. *D. areolaris* ♂♂ at 2.

Aspilota 2000 at 2. *Conochilus* ♂ sp. at 2.

Phaenocarpa affinis ? ♂ at 1, ♀ at 2. *G. uliginosa* ♂ at 1.

Chorebus ruficornis at 1.

Aphidius at 1 (3000)

Gen. sp. ? ♂ at 1, 2 ♀♀ at 2, near *Prionus*.

Meteorus ♂ at 2. *Aspilota* at 1.

Anteon ♂ sp. taken by J.F.P. at 2 (near *A. ruficornis* / Bull. Hal).

Stenomacrus morio Hal. ♂? at 1.

Loxura haematodes ♂ at 1. *Alloea pallipes* ♂ at 2.

Proctos *deletus* Thom. ♂ at 1. *Promethes* ♂ at 2. *P. pulicator* ♂ at 1.

Glypta elongata ♂♂ & ♀, at 1, from J.F.P. *Hemiteles* ♂ at 2, common.

11th June 1933. A showery morning, leaving everything
 wet, but becoming fine & warm in afternoon.
 Beril scrub ^{below} Tipper Lodge 11.0 till 12.0 noon (=1)
 & scrub at both sides of "foot-track", Athdown,
 Co. WI. 12-30 till 5.0 pm. (=2) Later walked on to Ballylow
 Brook, where *Rhyssa peruviana* reported by C.O. &
 collected a few *Dacnusa* ♂ & ♀ by sweeping ^{along} ^{drain}
 by roadside (=3). ^{Many collected by George (labelled J.M.S.)}
^{at both sides of foot-track & Ballylow Brook, S. of 2.}

With Mr. & Mrs. Charles O'Connell, & J.F.P.

Bombus agrorum ♀♀ & ♂♂, *B. lucorum* ♀♀, a few only seen.

Andrena cineraria, *fulva* & *villosa* ♂ & ♀ seen.

Neomada flavipetala ♀ taken by George, at 2.

Oratus palmipes ♂♂ at 2.

Vespa rufa ♀ seen at post at 3.

Camptochus glabratus ? on hazel leaf by path down to bridge

P. ruficornis ? on hazel of stream on rt. side of river just

above bridge at 2. Both taken by J.F.P.

Tenthredella maculata, *atra*, *peruviana* & *luteola* common

T. moniliata ? 6 fine ♀ in marsh on left bank of river

1/4 mile above bridge at 2: seen to rattle on grass or mud & caught

Tenthredo arcuata a few ♀♀ seen at 2.

12th June 1933. Liffey Head, Co. WI., 17.00-18.00 alt.
Tricky rain almost all day, except for two short
intervals about 12 & 2.0 pm., after a fine morning.
Most insects collected on surface of peats!

12.0 Noon till 5.0 pm. With J.F.P.
No aculeate seen!

Tenthredo areolaris, *Stenomacrus delinellus*, &
Strangalia lineata, on surface of peats.
Loxura senilis 100 swept (J.F.P.)

Glypta elongata? 100, given to J.F.P.
G. parvicandata ♂♂ & ♀♀, mostly on peats, & all given
to J.F.P., except one ♂ with blackish hind tibiae & 1 ♀.
Campoplegid with banded abdomen: ♂♂ & ♀♀ very common at Liffey Head.
Dacnusa areolaris 1 ♀.

Stenomacrus curvicauda Br. 2 ♀♀ taken on peat & 1 ♂ J.F.P.
S. ventralis 1 ♀ (J.F.P.). *S. ...* 1 ♀
Pterostichus ?? sp.? 2 ♀♀.

Apanteles ... *Microgaster*? ...
Geophila ... ♂♂ & ♀♀ ...

Ichneumon ... *Phaenocarpa* ... *Aspilota* ...
Gyrocampa affinis? ... *Dacnusa areolaris* ♂ & ♀, very small. *D. brevis*? 1 ♂.
very small, very pale.

13th June '33. Liffey Head, WI., cont.
Glorious morning, turning dull at 11.0 a.m., but much sun
& warm in afternoon, (though dull all day in Dublin).

Down again to Liffey Head, Co. WI., with J.F.P., but sun
already gone & chilly wind; after about 1 1/2 hours there, down
on, but stopped near Sally Gap, for lunch & sun & took several
icks; then on to Bolybrinian bridge, also Lugallow, where had
lunch & tried to collect by beating (not left at home to dry!)
but wind & sun too strong & caught little here, though
many icks (*Cratichneumon* ♂, flying below bridge). After
lunch drove on to Deputy's Barn, WI., where spent
afternoon; very sunny but little out!

11.0 AM till 12.30 PM. Alt. 1600 to 1800 feet.

Liffey Head (=1), near Sally Gap = 2, Bolybrinian Bridge, = 3, Co. WI.
Andrena? ... with long yellow wing in antennae in foot at 2.
Campoplegid with banded abdomen at 1 & 2. = *Microgaster* common!
Perilissus ruficornis at 2.
Hemiteles 2 ex. like "subopacus" with, beaten off spines at 2, but H. very.
Callitula ... 1 ♀ at 1 & 2. *Stenomacrus* ... 1 ♀ at 1 & 2.
Campoplegid at 2 & 3.
Microgaster? ... at 2 & 3.

Hoplocampa alpina 1 taken at 3 by J.F.P. [Gen. & sp.? or seen at 2 & 3?]
Tenthredo ... red ♀ taken out of spines at 3.

13.6.33. cont. Exbury Park, G. 41
2-30 till 5-30. Sunny, but very few insects out, & some
no net seen almost - helpless!

Pimpla horvathi small, found at foot of garden, on Salix
Pimpla sp. 2 or 3 small on slope on S(W) side of path.
P. gibbosa 1 ♀ with last, very fresh.

Apariteles 4 1 ♀ Aspilota

Opius 2 ♀♀

Pezomachus black ♀, with Pezomachus!

Glyptus minutus ♀ J.F.P. Triclistus extremus ♀ J.F.P.

1 small
with
27
not
seen

14.6.1933. mainly dull, very warm, slight breeze (W).
Slade Brook, Upper Glenasmole, Co. DU. with J.F.P. who left
2-30 till 5.0 PM. Not many insects about!

Tenthredo alba, helvola, pinguis seen, & micromela.
Rhyssalus minutus very common. Small black fly, yellow & black legs,
Ycope marginatus ♀ taken. small off Salix. Aspilota ♀
Cratichneumon diversus ♂.

Anteon? large ♀ swept off Salix, (? var. of rupicola (Zett.) Hal.).

Ichneumon (♂ or ♀) large ♂ swept off Salix.

Ichneumon extremus ♀?

Mesochorus sp. many ♀♀ on hackberry with Ichneumon
Mesochorus profligator 2 ♂♂. Alucida of yellow? 2 ♂♂, one black. Ichneumon ♂
Ichneumon sp. niger gracilis sp.
J.F.P. in litt. 5.6.1933. ♂♂. small
to parasitise on Strongylogaster, larva.

Stenomacrus of penicillatus ♂/♀

Stenomacrus 2 ♂♂

Exochus minutus ♂

Hemiteles pentastomus, very large ♂ & ditto ♀, taken at same time & place.

Promethes argutus? ♂/♀ (? small dark specimens, all about black face!)

Mesochorus sp. ♀. In of? small ♀

Holcusp ♂

Phaenocarpa ♂

Aspilota ♂

Aspilota ♂

Microplitis ♂

Stenomacrus ♂

♂

Euphorus ♂

Aspilota

Aspilota superciliosus ♂

Dacnusa areolaris, ♂♂ & ♀♀ small, not kept, but small & carded.
small off Salix.

Gyracampa uliginosa 1 ♂.

11th till 15th June. Various items.

Megachile willughbiella, just or definitely seen in back garden, Harold's Cross, SU., on 12/6/33. Others probably seen in front garden two or three days earlier.

Common Bleeding Moth. Two caught in garden on 15.6.33 at 10.30 AM, in my left arm.

Plusia gamma seen at Compton, in back garden, on 14.6.33.

Phidippus aculeatus 1000 hatched out of trout which brought from breeding place earlier in year & given to J.F. Perkins on 11.6.33. Another 1000 out on 13.6.33.

16th June 1933. Garden, 14 Clarendon Rd., Bellingham -
Bellingham, Dorset.

Polyblastus mansuetor 19(?) in pan of house W.C. after flushing, 15.6.33.

18th June 1933. A 24th day: pale all day & heavy rain till 2.0 pm., then too frequent showers to collect.

Drove to Cobble Lodge, upper Glenside, SU. in morning, but too wet to leave car. In afternoon drove through Phoenix Park to hotel in R. Liffey just below entrance to Luttrellstown House (Belvedere) Co. DU. (=1) where collected about 4 nets & 1 *Agrotis*, afterwards to Royal Canal, below Blanchardstown, DU. (=2) where stopped a few minutes. Saw first of both places.

Dryopteris pinnatifida 1000 at 1, ♀ at 2. First seen 1933.

Cryptus ♀, black legs, swept off Burdock at 1.

Pimpla maculator ♀ at 1. *Pezomachus* ♂ at 2.

Chalcid ♂ at 2?

Apanteles ♂ at 1.

19th June 1933. A lovely evening.

Saw or took in Garden, 14 Clarendon Rd., SU. —

Bombus agrorum, *lucorum* & *terrestris* ♀♀. *Vespa sylvestris*.

Chrysus ignita. *Odynerus pictus* ♂♂ & ♀. *Crabro rana*.

Crabro clausa ♀♀. *Pemphredon shuckardi*.

Homocidus flavolineatus 1 ♀ on Red Currant. *H. fuscicornis* 1 ♀ on *Platanus*.

Aspilota ♂ on Red Currant, smaller: also larger ♀, 2 seen up.

92.

20th June 1933. A perfect afternoon & evening: E. breeze.
Garden, 14 Clareville Road, Dublin. Evening.

Bombus lucorum fresh & running on wall at 6 P.M.

Odynerus pictus many ♂♂. *Chrysis ignita* 1

Crabro rarius many till ca. 7.30 P.M., on sun after.

Spilomela tryblidis one ♀ running up clothes-line post
next Ellison's wall at 6.0 P.M. [Another ♀ taken on

same post on evening of 22/6/33 & 3 ♂♂ on Rhodod. on evening of 22.6.33.]

Bombus lucorum 1 ♀ at Whit. Currant.

Homocidus ornatus (large ♂?) at Whit. Currant

4 ♂♂ at same, Black Currant, & 1 ♂

Microgaster ♀ at same.

Campoplegid ♀ at Rhodod.

Aspilota ruficornis (♂?) at Ellison's tree.

Apanteles ♀ at Whit. Currant.

Flies from wetty falls on oak taken near Tinnis, NI.
on 28/5/33 found in water house. 20.6.33.

93.

21st June 1933. A fine sunny afternoon, but cool N.
breeze kept insects hidden till about 5.30 P.M. After that
more out.

Gorge of upper Liffey at Athdown fortalice, G.D., as before.
3.30 till 7.30 P.M.

Many ♂♂ seen by path from road, mostly

Andrena wilkella, which was flying in dozens.

A few ♀♀ *Halieta* seen at same place, probably *stigma*
or *pygmaea*.

Homocidus flavipennis 1 ♀ seen.

Tenthredella spp. not so common as on 11th June &
mostly *fulvipes*. *Rhyssalus viridis* still abundant.

Stenobothrus delicatulus: many seen on ferns.

Dolichopus niger 1 fine ♀ swept in mud above ferns.

D. heron ♂♂ seen. *Tenthredonia inornata* 1 ♀, ♂♂ seen (th.?)

Selandria stramineipes 1 ♀ on tree.

Phaenocarpa rufa 1 ♀ on mud.

Anthomyia on *Cladonia* sp. 1 ♂

Ichneumon red 1 ♀

14 *Cryptobius* joined

also

Hemiteles? 2 ♂♂, 1 ♀, and 1 ♂.

P.T.O.

94.

21.6.33 cont. Athdown, W.I. cont.

Meniscus cimator 2♀♀ (one at head of rush in marsh).*Limnoria* 1♂.*Glypta ceratita*? 1♀ at track. *G. elongata* ♂♂ & ♀♀ near marsh.*Pimpla brevicornis*? 1♂.*Microctonus* "Cyphus", 3♂♂ in swampy place in marsh.*Tryphon* sp. on left side of left bank about track.
a lot of left bank along footpath & along road.= *Tryphon signator* 21♂♂ & ♀♀. *T. subnervosus*? 1♂.*Chalcidophorus* (Stethosoma)? 1♂. *Perilissus pilicornis* 1♀.VAIS 13/4/04!
Polyblastus resplendens 1♂. Very dark & polished, legs of
with red legs, dark head & thorax. Taken flying round
bank on top of left bank & walking on bank. *Tryphon* sp.*Chorineura punctata* 2♂♂ flying along top of left bank.*Proctos* *latipes* 2♂♂ in swampy parts of marsh.*P. sulcator* (black base to hind coxae) 1♂. *Homocidus punctator* 1♂.*Eurytoma cinctula*? 1♂ at top of left bank.*Cteniscus parvulus*? 1♂, 1♀. *Sialis* in marsh & on bank (2).*Chrysomelids* in marsh? 1 black, cf. *punctulatus* Htg.

95.

21.6.33 cont. Athdown, W.I. cont.

Bracon ^{*fuscipes* 2♂♂.} _{*fuscicornis* 2♀♀.} swept in marsh.*Apanteles* 2♂♂ { not in same marsh? }*Microgaster* 1♀ & 2♂♂ swept down from road.*Microplitis*? in marsh.*Euphorus pallidipes* 2♂♂, in marsh.*Phaenocarpa confusata*? 2♂♂ in marsh.*Dacnusa* *areolaris*? 1♂ in marsh. *D. areolaris* 1♂ swept.*Oenone* ^{*viridula*} ~~*viridula*~~ ♀ on brick on top of left bank.*Gyracampa affinis* ♀ 1♀ in marsh.*Chrysura ruficornis* ♂♂ & ♀♀ in marsh.*Aspilota* 1♀ in marsh.*Aphidius* spp. swept in marsh.2 *Proctos*.1 *Chalcid*.*Camptoplegid*. *Sagittaria erythraea*? 1♀. *S. annulata* 1♀.*Aspilota*? 1♂. *Holocranum*? 1.*Camptoplegid* 1.

25th June 1933. A glorious, soft day, spoiled by E. gale, which blew down the slopes of the hills & tore through all vegetation, thus making collecting extremely difficult. Following a couple of dull & wet days, the day opened dull & gradually cleared & all sunny after mid-day. With C. H. Allen!

Back of the Little Slaney, at Coan, Co. Wick, for a mile above the ford; & just below same, where a few insects collected after tea (4.30-5.30 pm).

~~Too~~ windy for acrobatics & few out (also but nesting ground all destroyed by cutting, in field NE of ford); but ichneumonids extraordinarily numerous considering the wind. Many small species taken by sweeping under, &c., in sheltered swampy places.

Bombus agrorum ♀♀ & ♂♂. *B. lucorum* ♂♂.

B. jonellus 1 ♀ (fresh) seen by Allen. *B. hortorum* ♀

Andrena fuscata, a worn ♂.

Habitus & (*calceatus*?) seen.

Homocidus ruficornis, *plagiator* & *fabuarius* (fresh).

Crabro fulvipes ♂ on willow up Little Slaney

Pompilus ruficornis ♂ on willow stem. *P. gilvus* ♀, in moss.

Andrena — large ♂ swept.

25.6.33 cont. Coan, WI., cont.

Tenthredella palliata, *livida*, *atra* ^{2981 seen} seen.

Rhyssalus viridis abundant.

Ortynus ruficornis ♂♂ & ♀♀ seen.

Salixia stramineipes ♀♀ very common, 1 taken.

Tomostethus luteiventris ♀♀ in field. *Salixia flavipes* 1 seen.

Pachyramphus ruficornis ♂ PC 25.7.34.

Ichneumon ♂ (in bushy place).

Cratichneumon annulatus ♀♂ in Salix. *C. ruficornis* ♂♂ & ♀♀.

Phaenocarpa sp. ♂, 11.10.34 seen.

Erythraea ♂♂ & ♀♀.

Homocidus ♂♂, 2 ♂♂, 1 ♀ seen.

Glyptotendipes ♂♂ & ♀♀ common in marshes.

Phytodietus sp. 1 ♂.

25th June 1932 Garden, 2 Clareville Rd., Dublin.
7.30 till 10.0 P.M. Wind dropped & lovely soft evening.
Molluscs taken on white ground at 10.0 P.M.

Agrotis & *Agrotis* ♂ on white ground.

Spilomena hyalodonta 2 ♂♂ (?) flying to Rhododendron, back part.

26th June 1932 A splendid day, though dull till
early afternoon; afterwards all sunny & very warm.
W. wind rather strong: cleopas & flies very troublesome!

Mullacrina ^{"Kilkea Park"} — put alt., S. end of Kilkea demesne
between Athy's & Carth. demesne, G. KD. With Rev. W. M. Dunlop, E.O.M. & Act. O'Meara.

Very nice ground, woods & plantation, surrounding grassy
hill top with much *Scabiosa succisa*, *Carduus palustris*
(portions of which were very rich before war came out), though
the hill seems to be composed of sand & gravel moraine
& has a sandpit at N. end just below the old ring
fort. Much bird cover, where plantation has
been cut.

26.6.33 cont. *Mullacrina*, G. KD. cont.

Bombus agrorum & *lucorum* ♀♀ very rare, also ♂♂ *agrorum*
Pisithyrus distinctus 1, post ♀.

Vespa rufa ♀.

Andrena subopaca? several ♀♀ seen, almost certainly the ♀.

Halictus 1 ♀ seen (like *atropis* or *reticulatus*).

Gorytes mystaceus ♀♀, seen catching "bush-crisp" larvae.

Myiophobus spinosus 1 ♂.

Empidonax luteus ♀.

Cratichneumon ♂ taken by E.O.M. on Hazel tree at
base of NW side of hill (W. of sand pit) & 3 more taken
by me later at same place, which is at NE. edge of big
birch glade, where conifers have been felled.

C. W. maculatus ♂♂ abundant along top of sandpit.

Anteon of ♂ swept by E.O.M. on S.E. side of road.

Tenthredo "cremator" common. *Tenthredella pallida* ♀.

Salixia strimmarum? ♀♀ abundant about track.

Tenebrio pygmaea ♀. ♂ & ♀ seen 19.9.33.

Althia cordata? 1 ♀, pale yellow. *Phaenocarpa ruficollis* 1 ♂, also 1 ♀ (19.9.33).

= Killee Park?

26.6.33 cont. Mullacraia, ND cont.

Schizura ♂

or near *Cruciatia* (EOM) *Cruciatia* *fulvipes*? 1 ♀ (EOM).

Cyphobates 1 ♂, 2 (EOM)

Phaenocarpa? *cruciatia* 1 ♂, 1 ♀ (EOM).
= *Monocryptus* (*Cruciatia*) *opacus* (Thoms) ♀ (note H.S. 1 confirmed by J.F. Perkins, 19.4.1932.)

Pimpla (s.l.) *manducator* 1 ♀. *P. flavicornis* Th. 1 ♀, 2 ♂ (EOM).

Glypta *frugiperda* Thoms. 1 ♀ = *G. nigra* Desv. (s.l.) J.F. Perkins

G. monomaculata 1 ♂, 1 ♀ at Thistle. 1 ♀ *G. trichotomata* 1 ♀

Chorebus "picta" 3 ♂, 2 ♀ at *Cruciatia* *fulvipes* H.S. 1 ♂, 1 ♀ (EOM)

C. laticincta? 1 ♀ swept by E.OM in top of hill, close to where my ♂♂ were taken!

C. l. 1 ♂, blackish ♂

Microgaster *calator* 9 ♀ (on leaf).

Hemiteles sp. All think taken on stem of *C. fulvipes* for

= *H. bipunctatus* 1 ♀. *H. crassicornis*? 3 ♀♀. *H. pictus*? 1 ♂. *H. pulcher* 1 ♂.

Bassus *tricornis* 1 ♀. (only large one of var almost black abd.)

Saigona *varicosa*? 1 ♀ (1 ♂) seems to agree with Thomson's description!

Mesoleptus "typicus" 1 ♀. *Chorebus* *fulvipes* J.F. Perkins agrees that *Saigona* sp.? 3.4.1931.

Chorebus

= Killee Park?

26.6.33 cont. Mullacraia, ND cont.

Mesoleptus 1 ♂, 1 ♀ mostly taken in hill scrub at S.E. side

Mesoleptus sp. 1 ♂, 1 ♀ (EOM).

Chorebus 1 ♀. *Saigona* *punctatus*? 1 ♂, 1 ♀. *Phaenocarpa* *transversa* 1 ♀

Microgaster 2 ♂♂. *Mesoleptus*? 1 ♂. *Antisthenes*? 1 ♂.

Phaenocarpa *cruciatia*? 1 ♀. *Cruciatia* 1 ♀. *Mesoleptus* 1 ♂, 1 ♀

Chorebus 1 ♂.

Microgaster 1 ♂. *Apanteles* 1 ♂. *C.* 1 ♂.

Mesoleptus *ictinoides*? 1 ♀ (EOM). *Euphorus* *pallidipes* sp. *Blacus* *paganus*? 1 ♀

Syngaster *pallidipes*? 3 ♂♂. *Phaenocarpa* *cruciatia*? 1 ♂

Chorebus *fulvipes* 1 ♂, 1 ♀. 2 ♀♀, on top of hill, on scrub.

Pygostolus *dictus* 1 ♀. EOM. *Opius* *apiculatus*? 1 ♀

Alysia 1 ♀. *Aspilota* *maculipes*? 1 ♂, 1 ♀

Chorebus *gustatus*? 1 ♂ (EOM).

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

Chorebus 1 ♂, 1 ♀.

[*Bombus lucorum* ♀ came into my room (H. window) on 28.6.33. in museum, as usual, looking for a place to hibernates!]

29 & 30th June 1933. Garden, 14, Clarendon Rd., GH.

Both crinids June though dull.

Bombus lucorum ♂♂ & ♀♀ in front garden in Thyme & Sed.

B. agrorum ♀♀, a few only.

B. jonellus full ♂ on *Conium maculatum* in back garden.

[*Verpa* sp. a ♀ flew into bedroom at 7.30 (S.E.) AM. on 1.7.33]

Pemphredon shuckardi 1 ♀ examined, on 29th.

Crabro varius common. *C. claripes* ^{♂ on 29th} several ♀♀ seen on 30th.

Homocidus ornatus ♂♂ common on white-currant.

H. flavo-marginatus ? 1 large ♀

Mesoleptus 2 large ♀♀, several on white-currant.
1 smaller ♀, & 1 ♂, 1 ♀ still smaller, but 2 all same species.

Pimpla eximius ♀ on red currant on 30th.

Aspilota ? or *Chorebus* ? 1 ♀

Pteronidea nitens ♀ seen on white-currant on 30th &

will-ow down in next bush!

Common blenny, with seen on 29th on white-currant.

1st July 1933. Garden, 14, Clarendon Rd., GH.

Mesochorus willughbiella 1 ♂. *M. centurionaria* 1 ♂

[also 1 ♀ *willughbiella* seen on 2/7/33.]

Euclyptus ? on *Ornithoglossum*!

2nd July 1933. A very hot day, no clouds & gentle E-NE breeze.

Sandhills, stream & fields behind same, between

Term on Jackson & Baltray, Co. Lth. 11.30 till 4.50 PM.

Most insects taken by stream through field on E.

boundary of Norton Ho.

Bombus lucorum & *agrorum* ♀♀, only a few seen.

Andrena sericea & *fulvipes* 1 ♀ (seen) of each seen.

Colletes pini-styria ♂♂ common in the spot, 1 ♀ seen under

Trichoptera putrescentia ♀♀, one seen carrying grasshopper there
towards its own bulk.

Aspilota stigmata ♂♂ & ♀ taken, others seen, in partly flat-

bottomed hollow just N. of road from Norton House
to beach.

Pompilus flavipes ♂♂ & ♀♀ with cat.

A red sp. (yellow?) if seen with cat.

Crabro varius 1 ♂ in dunes. *C. chrysostomus* ♂♂ & ♀

C. tibialis 1 ♂ on oak, at back gate to Norton Ho. with cat.

Pemphredon shuckardi 1 ♂ on oak with cat. *Crabro leucostomus* ?

Meloboris curvipes ♂ on oak with cat. *P. curvipes* ?
seen at stream.

2.7.33 cont. Termoufshin, Co. Ltt. cont.
Bethyla exaltata 1 large ♀ in field. Anterior of ♂ in field.

Dolerus pubescens 1 ♂ by stream.

Tenthredo arenaria seen.

Meloboris punctator ♂♂ & ♀♀ common, about required.

Ich. luteicornis 1 ♂ black, with yellowish points, ^{of which} _{one} on ^{the} _{head}.

Amphistelea cratonia 1 ♀ by stream.

Euphranta 1 ♂ 2 ♀♀ of 2 spp.

Stenodonta marginalis? 1 ♀ on Daisy ^{on ditch} _{behind} _{dune}.

Hemiteles sp.? 1 ♂ carded.

Glypta "nigrescens" var. with elongate terebra, 1 ♀. ♀ of sp.? smaller, with dark hind coxae & long terebra.

Mesochorus catorator ♀ on *Glyceria* by stream.

Bracon debilis? 1 ♀ by stream.

Stenomacrus minutus? ♀ swept by stream off Water-cress, etc.

Microplitis spp. 2 ♂♂. *Euphranta*? 2 ♂♂ & ♀♀.

Sp. with yellow mottled spots. *Mesochorus* 2 spp. 2 ♂♂.

Oncophanes 1 ♀. *Euphranta* 1 ♂. *Dacnusa areolaris*? 2 ♂♂.

Meloboris (*Proctos*) *craticornis* 1 ♀. *Exochus* ♂ = ? *Leptopygus* *harpurus*.

2.7.33 cont. Termoufshin, Co. Ltt. cont.

Bracon 2 spp. ♂♂ = 55 ^{varicator?} ~~*leptopygus*~~ 1 ♂, 0 ♂♂. *epitriptus*? 1 ♂.

Mesochorus craticornis? 5 ♂♂.

Apanteles sp. 2 ♀♀. *G. f.* 1 ♀.

Rhyssalus concolor 2 ♂♂ & ♀♀.

Dacnusa areolaris ♀ 1 ♀ by stream.

Coelinius sp. ♂. Swept in dune.

Aphidius (*arenaria*?) 1 ♂, 2 ♀♀.

Chalcid 2 ♀♀, funny little sp. with short wings & prominent middle legs.

3rd July 1933. A terrifically hot day, gentle E. breeze, & no clouds. Too hot for many insects!

Drove with E. O'Shaughnessy & Art O'Shaughnessy, to Ballinacorney L., Co. Westmeath, where Dr. Hackett & his Harvard University colleagues engaged in excavating on site of brannage, in S.E. corner of the lake, which lies in Kings Co., the rest of the lake being in Westmeath. Stopped at Newtownlow, east of Tyrrell's Pass, Co. WH on outward & return journey & collected about N. end of Cornacree bog, S. of Newtownlow; also took a few insects at

3.7.33 cont. Edge of Ballyderry Lough, at SE corner, beside cessage, C.K.C. 3.0 - 5.0 PM.

Smia rufipes? 2 large specimens swept by E.O.M. between cessage & smaller lough, amongst reeds & sedges. 1♂, 1♀.

Small blackish with long tail swept on edge of lake.

Glypta monoceros 1♀ swept on shore of lake.

Brown red & blackish swept with last.

Bracon 2 spp. 1♂, 2♀♀ swept on edge of lake.

Phaenocarpa eugeniae 1♀ swept on edge of lake.

Apanteles

Procto 2 ex. one swept by E.O.M. other by A.V.S.

9th July 1933
Taken by E.O.M. along
margin of cessage
near Ballyderry Hall
C.K.C.
Microgaster
Trichopoda
Conochilus?
Hemiteles?
Microctonus?
1♂, 1♀

10th July 1933.
Swept by E.O.M. along
N. of cessage, C.K.C.
A.V.S.
Blackish with swept on
edge of lake.
Apanteles with wings 1♂
Pteromalus 1♀
Camptopoda small ♀
Tryphon 1♀
Leptopygus *haemipennis*? 1♂
Pimpla *reticulata* 1♂, 1♀
Glypta *reticulata*
1 red ♀
Microctonus *fulvipes*?
1♂, 1♀
L. cyathodactylus 1♂

7th July 1933. A poor afternoon, very strong (SE) but sunny. Very few insects out.

Landpit at Knockmaroon, C. 84. [2 specimens & few insects taken in Furry Glen, Phoenix Park].

Bombus agrorum, *terrestris* & *terrestris* the only visiting bees.

Ichneumon or *Anthylus*? 1♂.

Cyrtus 2♂♂.

Pimpla reticulata 1♀ very red legs.

P. detrita? 1♂. *Microctonus* *eximius*? 1♀.

Polyblastus tuberosus? 1♀, another taken along by mistake for *Phyllophaga*!

Exochus *prospiciens*? 1♂, 1♀.

2 *Camptopoda* - *Oncophanes* 1♀. *Conochilus*? 1♂, 2♀♀.

Amorpha, many small ♀.

Furry Glen, Co. 7.7.33.

Dacnusa areolaris 1♂. *Gyrinus* *alpinus*? small ♀.

Pentapleura punctata? 1♀. *Aphidius* 1♂.

Pimpla maculata 1♂ at ground. *Attractodes* *decoloratus* 1♂.

Sagitta 1♀. *Agilis*? 1♂.

7.7.33. Garden at Harold's Cross, 20.
Chalcid *mutator* 1♂

8.7.33. Another ♀ *Sphex*
like *fulvipes* & *fulvipes*
J.H.S. Ballyderry

9th July 1933. A poor day after a fine morning & rain after 2.30 PM. Practically no sun after 12 noon. Wind variable, SE to SW-W, calm.

Drove, with Palmer, to Darghda & collected in old gravel pit on N. bank of river Boyne, about a mile below town (=1), but too windy for insects; then on to Ternanpuckin, Co. L.H. (=2), as on previous Sunday.

Bombus terrestris ♀♀ common on dunes at 2. Also none seen on 2nd July! *B. lucorum* nest in log by back gate of Darghda Ho. *B. lapidarius*, seen at 1 & 2. [*B. agrorum* none seen!]

Habitus rubicundus ♂♂ abundant at 1.

Colletes piceus ♂♂ & ♀♀ at 2 (only 1 taken)

Aspilota rufipes, 2♂♂, 3♀♀, in same hollow as on 2/7/33, taken by Palmer at 2.0 PM during slight lull of sun.

The sp. nest very common here!

Crabro leucostoma, *reticulatus* 2♀♀, & *chrysostoma* ♂ at lull in log ^{at} back gate of Darghda Ho.

Meloboris curvipes & *Vespa vulgaris* at gate.

Odynerus nest & dead *Chrysis ignita* on stone wall of gate.

Pompilus fitchii 2♀♀ & *P. plumbeus* in dunes.

Pompilus shuckardi 1♀ at 1, on lighthouse top.

Anteae sp. ♂ on old willow tree at gate.

[*Dicranophora bicolor* Hal. G.S. of the species emerged from a small white, rather opaque, on 15.7.33. I believe I believe collected on dunes during lull at Ternanpuckin, but was unfortunately not labelled & the insect not observed till it had died! G.S.]

9.7.33. Ternanpuckin, Co. L.H., cont.

Tenthredo areolaris one or two seen only.

Small black sp. on *Spirea* in "wuzzy" at gate = ^(*Blacus ruficornis*?) _(*parvulus* ♂ 18.7.33)

Ichneumon *montivagus* ♂, ♂ at 2

Ichneumon sp. ♂ taken in car near Darghda Ho. ^(*black & yellow*) _(*labelled* *Ichneumon*?)

Cryptus ^(*Gnomophila* *calyptus*?) _(*black*) 4♀♀ on willow log at gate, one seen to emerge out of hole. These holes probably made by *Meritis tardus*, but many inhabited by *Crabro leucostoma* & *reticulatus*. *Cryptus* 1 red & black ♀ on log (Palmer).

Leucospis pumilio 3♀♀, other seen, on same log. *Chalcid*, large ♀, with pointed tail: ? parent of *M. tardus*. *Pezomachus* small black wasp ♂ (13) taken & given to me at Ternanpuckin at the time.

Microleptus 2 spp. in "wuzzy" by gate.

Stenomacrus sp. ♀ swept by drain.

Bracon 1♀. *Dacnusa areolaris* ♂ seen from lighthouse.

Aphidius ♂♂ & ♀♀ taken by drain at gate. G. of large ♂.

Apanteles 2 black ♂♂ swept at drain.

Chelonus 1 in dunes (Palmer).

Metacoelus ♂ at gate.

9.7.33 EOM } see p. 110 ante!
10.7.33 J.W.S.

13th July 1933. A dull, warm day, with much misty rain & only blinks of sun. Very little out, caught insects & then mainly in afternoon. Spent morning around sand pit & scrub in deer park, Killybegs, near previous evening, & afternoon in gravel pit on railway N of Killybegs. Labelled Killybegs Dph.
to HK. 13.7.1933

Sand pit & scrub, near Bountess Hall, deer park, Killybegs, Co. HK. 11.0 AM. till 1.0 PM.

Bombus lucorum, *terrestris* & *agrorum*. *Vespa rufa*.

Andrena viciae ♀ (C.F.). *Sphex* ~~typicus~~ ^{typicus} ♂ 10.

Meloboris ~~arvensis~~ ♂♂ *Crabro* ~~varius~~ ♂.

Pachyprotasis ~~arvensis~~ 1♂.

Textura ~~arvensis~~ & *Atelodes* sp. seen.

Selammon ~~quadripes~~? small ♂. *Cryptus* small ♂♂, *Cebidus*.

Henicobus? 1♂, 1♀ canted, 1♀ pinned.

Lissonota ~~lunulata~~? 1♂ *Hemiteles* 1♂ *Saracanthus* ~~varius~~ 1 male ♀.

Sagitta sp. 2♂♂, 1♀. Also two other *Sagittas* (1933).

Rhyssalus ~~arvensis~~ 3 3♂♂. *Pezomachus* ~~arvensis~~ 1♀, with 22 joints antennae.

Euphorus ~~pallidipes~~ 1♂. *Phaenocarpa* ~~rupestris~~ 1♂.

3 *Picro*.

13th July 1933 cont.

Gravel pit on railway, N of Killybegs, Co. HK.

3.0 till 6.0 PM.

Bombus lucorum, *agrorum*, *terrestris* & *lapidarius*. ♂♂ on *Vicia cracca*.

Vespa rufa.

Saturnia ~~arvensis~~ 1♂ & *Cerophora* ~~arvensis~~ 1♂ in same count.

Textura ~~arvensis~~ 1 pair in cop.

Selandria ~~arvensis~~ 2♂♂ (C.F.)

Selammon 1♂ 1♀ 1♂

Platylabus ~~dimidiatus~~ ♀, also ♂♂. Last night 1♂ of 19 *vitellina* (all three).

Potterius ~~arvensis~~ *lunulatus* 1♀ (C.F. 1933)

Cryptus ~~arvensis~~ 3♂♂.

Pezomachus sp. 2♂♂ *Henicobus* 1♂, all but *lunulatus* & *lunulatus* ~~arvensis~~ ^{abundant}.

Lissonota ~~lunulata~~ ♂♂ & *Pimpla* ~~arvensis~~ 1♀.

Glypta ~~arvensis~~ 1♂. *Henicospila* ~~arvensis~~ 1♀.

Meloboris ~~arvensis~~ 1♂, 1♀. *Mesochorus* 1♀.

Angitia ~~arvensis~~? 2♂♂. *Cebidus* 1♂. *Orthocentrus* 1♀.

Plectiscus 2♂♂. *Rhyssalus* of 19 *vitellina* with 15 joints in antennae. *Phaenocarpa* ~~rupestris~~ 1♂.

14.7.33 cont. Glen near R. Lanes & Gap of Doolin, W.D. cont.

Limonata hirsuta 100 (200) *Limonata hirsuta* 100

Salix capitata 100 (100) *Phytolacca* 100 (100)

Opuntia 100 (100) *Hesperis* 100 (100)

Camphoros 100 (100) *Sagittaria* 100 (100)

Phlox 100 (100)

Chamaecrista 100 (100) *Baccharis* 100 (100)

Hesperis 100 (100) *Chamaecrista* 100 (100)

Baccharis 100 (100) *Chamaecrista* 100 (100)

Chamaecrista 100 (100) *Baccharis* 100 (100)

Baccharis 100 (100) *Chamaecrista* 100 (100)

14.7.1933 afternoon Woodlawn (right bank of R. Lanes), at
Killassney, Co. HK. 2.30 - 5.0 P.M. Dull, nearly rain.

Salix 100 (100) *Phytolacca* 100 (100)

Chamaecrista 100 (100) *Baccharis* 100 (100)

Baccharis 100 (100) *Chamaecrista* 100 (100)

Chamaecrista 100 (100) *Baccharis* 100 (100)

Baccharis 100 (100) *Chamaecrista* 100 (100)

Chamaecrista 100 (100) *Baccharis* 100 (100)

Baccharis 100 (100)

Chamaecrista 100 (100)

15th July, 1933. A fine day, with heavy shower at
1.30 P.M. & some skips of rain in afternoon, then
much less rain.

Drove, with Bullock, over Windy Gap to Kinnure &
stopped for a few minutes by the Trinity River on way down.
Saw many *Bombus lucorum* & *Gorytes* *melanochlamys* 1♀.

Then on to Sheen River, about a mile above Sheen Bridge,
near where Bullock (1898) recorded having taken
Andrena labiata in July 1898. In afternoon drove

back through Windy Gap & stopped at small rough below
Looscanagh L. & again at Derrycurry, where collected
woods filled with *Andrena*, *Hymenophyllum*, *Andrena*,
Andrena, but rapidly being destroyed by
Andrena.

15.7.33. Left bank of Sheen River, 3 miles SE of
Kinnure, Co. SK. 11.30 till 4.0 P.M.

Bombus agrorum 100 (100) *B. jonellus* 100 (100)

Vespa 100 (100)

Crabro 100 (100) *B. pectoratorius* 100 (100)

B. IV-maculatus small black ♂♂ (E.F.B.).

Mellicope 100 (100)

Salix 100 (100)

14.7.33 cont. Glen na R. Laune & Gap of Dunloe, (W.K.) cont.

Limonata hirsuta 100. *Campanula trachelium* 100.
Salix repens 100. *Hydrangea* 100.
Oppidum 100. *Herminium* 100.
Campanula 100. *Sagittaria* 100.
Phlox 100.
Homocidus niger 100. *Oedemera* 100.
Graminis 100. *Chalcid* 100. *Chalcid* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.

14.7.1933 afternoon. Woodlawn (right bank of R. Laune), at Killarney, Co. HK. 2.30 - 5.0 P.M. Dull, nearly rain.

Phlox 100. *Phlox* 100. *Phlox* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.
Phlox 100. *Phlox* 100. *Phlox* 100.

15th July, 1933. A fine day, with heavy shower at 1.30 P.M. & some skips of rain in afternoon, when much less rain.

Drove, with Bullock, over Windy Gap to Kenmare & stopped for a few minutes by the Finnichy River on way down. There many *Bombus lucorum* & *Gorytes mystecus* 100. Then on to Sheen River, about a mile above Sheen Bridge, near where Bullock (1898) recorded having taken *Andrena labialis* in July 1898. In afternoon drove back through Windy Gap & stopped at small bog below Looscanagh L. & again at Derrycurroney, where collected in woods filled with *Andrena*, *Hymenophyllum* *turbidum* & *Euphorbia hibernica*, but rapidly being destroyed by *Rhododendron*.

15.7.33. Left bank of Sheen River, 3 miles SE of Kenmare, Co. SK. 11.30 till 4.0 P.M.

Bombus agrorum 100. *B. jonellus* 100.
Verpa rufa 100. *Verpa* 100.
Crabro varius 100. *Crabro* 100.
Crabro 100. *Crabro* 100.
Crabro 100. *Crabro* 100.
Crabro 100. *Crabro* 100.

15.7.33 cont. Sheen River, SK. cont.

Andrena cruenta ♀♀ on brambles

A. tarsata ♂♂ & ♀♀ very fresh on hatching bank
just above the falls in river

Halictus villosus ♀ *H. rubicundus* ♂♂ & ♀♀, fresh.
H. calceatus ♂♂

Lasius fuliginosus ♀♀ & 1 winged ♀ on fir tree in river bank.

Chia sericea ♀ (C.F.) *A. nictitans*? ♀ on bracken

Gasteria larva? on birch, all covered with wax: the larva
brought home & put on birch in garden, but it had disappeared when I returned from London
on 19th August.

Teuchocampa ♂♂ & ♀♀, 1 brightly coloured ♀.

Leucophaea ♂♂ & ♀♀. *Leucophaea* ♂♂ & ♀♀.

Pimpla angustator? 1 dark ♀, very smooth abdomen (cf. *conspicua* West). 1 dark ♂. 1 dark ♀.

Homocidus ♂♂ & ♀♀. *Cryptus* ♂♂ & ♀♀.

Exochus? ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Mesochorus ♂♂ & ♀♀.

Syrphoctonus ♂♂ & ♀♀. *Meloboris* ♂♂ & ♀♀.

15.7.33 cont. Sheen River, SK. cont.

Bombus fulvipes ♂♂ & ♀♀ on ground

Bombus lucorum ♂♂ & ♀♀

Apanteles ♂♂ & ♀♀.

Sigalphus ♂♂ & ♀♀. *Aspilota* ♂♂ & ♀♀. *Bombus lucorum* ♂♂ & ♀♀.

Aphidius ♂♂ & ♀♀.

Scolio ♂♂ & ♀♀.

15.7.33. Woods at Derrycuniffy Fall, Upper Lake
Killarney, Co. Also 3 hymenoptera taken above
this by Trigg, Aug. 4.30 till 6.0 PM.

Mostly small Braconids, etc., & taken by sweeping
bracken, Euphorbia, Vaccinium, & in woods, & on
Rhododendron leaves.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

Exochus ♂♂ & ♀♀. *Exochus* ♂♂ & ♀♀.

T.T.O.

15.7.33 cont. Dampness by road, Hillmancy cont.

Electus 1 very elongate brownish ♀

Typha 1 ♂ *Supracanthus* lib. ♀

Bracon 1 small ♂, *Chelonus* 1

Opius 1 ♂, same = *Opius* ♂? & transferred to institute. See diary 7.7.33, 7.8.33, 1934

Aspilota *maculosa*? 2 ♂, *A. jansoni*? 1 ♀, but all 33-jointed antennae

Orthocentrus maculatus Thoms? 1 ♂, with 30-jointed antennae

Proctos 2 same (1 simple).

16th July 1933. A very fine day, sunny, and hot.

Drove home from Hillmancy via Lough and Monagh, stopped to collect by roadside near Banfield & at quarry, at water, at Shanbally (between Monagh & Tommyarra), Co. NT, & later at Emo Park, Q.C., but very few insects out.

Roadside at Banfield, ⁽¹⁾ S. of Monagh, & quarry at Shanbally, ⁽²⁾ E. of Monagh, Co. NT.

Bombus lucorum, *terrestris* ♂♂, *terrestris* ♂♂ & ♀♀, & *agrorum* at Banfield House at 2.

16.7.33 cont. Banfield & Shanbally, NT, cont.

Halictus freygesseni ♂ at 2

Phaenocarpa *hyalinata* ♂ probably the 1st seen. Also dated as 7.2.34! at same place at 2

Salix *exaltata* ♂ at 2

None of the 1st Banfield! but only 7 altogether.

Pimpla *horvathi* ♀ at 203. *C. elongata* ♂ at 1. *Glypta* *exaltata* 1 ♂

Proctos 2 *Halictus* 1 ♀ at 1 very large *halictus*

Microgaster 1 ♂, *Opius* 2 ♂

Bracon *phalaenae* ♂ at 1. *Opius* 1 ♂ at 1

16th July 1933 cont. Emo Park, Co. Q.C.

On edge of wood & amongst heather & bracken = 1.

In old sandpit the mid North of last = 2.

Basically no insects seen at 2 though the place was at large with suitable flowers.

Bombus terrestris 1 ♂, *lucorum*, *terrestris* ♀♀ (C.C.), *agrorum* & *horvathi* at 2, mostly.

Pimpla *distans* ♂ at 1.

Halictus rubicundus, *exaltatus*, *freygesseni*, *terrestris* & *maculatus* ♂♂ on *Leontodon* ♂ at 1, very fresh.

H. lucorum ♀ at 1. [None seen at 2.]

3 or 4 Cryptids

Glypta rostrata ♂

both in same plot, with nettles, &c.

23.7.33. Shore at Bundroes, Co ED.

Amongst several, at high tide marks.

Aphareta cephalota about 8 ♀♀ on rotten logs. (S. F. S. N.)

Platymischus ditata ♂♂♀♀ (imm.).

23.7.33. Afternoon. Bunduff, Co. SL.
 1 = Best pale plantation 2 = mud at S.W. end of
 3 = Field drain, N of same behind house, Bunduff house.
 4 = Top of cliff above Bunduff Strand.

Bombus lucorum & *terrestris* (fresh at 4).
Crabro stygus 2♂♂ common at 1, in same vein as
 in 1932, & on both sides it in same, the rest still in, in that.
C. stygus at 2.

Euclyptus? 2♂♂. *Habrocyptus alternatus* 1♂.
Homalidae 2♂♂ & 2♀♀ (1♂ & 1♀).
Pimpla rubicincta? 1♂. *Phytodietus* 1♀.
Glypta rostrata 1♂. *G. monumator* 2♀♀. *G. apertirostrata* 1♀.
Bombus ruginosus 2. *Perithous cognatus* 2. 1♂.
Euclyptus 1♂. *Stenomacrus curvatus*? 1♂ (1♀).
Chalcidius 1. *Microgaster* 1. yellow spots on abd.
Pentathoid? 1 small red abd. ♀.
Chalcidius 1♀.

Bombus
Chalcidius
Microgaster 1♂ at 2
Apanteles
Phygadeuon 1♀

23.7.33. Bunduff, SL. cont.

Dacnusa retundens 1. 2♀♀ at 2.

D. leptogaster 1♀ at 2 (small). *D. retundens* 1♀ at 2 (small).

D. sp.? large sp., 31-jointed antennae, basal segment scarcely longer than broad. A.W.S. 23.7.33.

This ♀ returned by Nixon labelled "sp.?" near *temula* Hal. A.W.S. 9.11.1936.

D. rotundiventris? 2♀♀, with 31 & 32-jointed antennae, rather small. A.W.S. 23.7.1933.

D. sp. for *affinis* 1♀, 1♂, at 2.

Euclyptus 1♂.

Stenomacrus 1♂.

This ♀ = Nixon sp. *D. subopacifrons* Nixon - 9.11.1936. It is with 31-jointed antennae given to Nixon. 1936.

24th July 1933. A damp day after rain at night, & everything very wet.

Woods & marshes, at Knatter, between Ballyclannagh & Belleek, Co. ED. 11.0 AM till 1.0 PM.

Bombus lucorum & *terrestris* (1♂ at 2).
Glypta elongata 1♀. *G. elongata* 1♀. *G. rostrata* 1♀. *G. monumator* 1♀. *G. apertirostrata* 1♀.
Stenomacrus 1♂. *Stenomacrus* 1♀.
Homocidus pallipes 1♂. *Homocidus globulipes*? 1♀.
Chalcidius 1♂. *Chalcidius* 1♀.
Perithous cognatus? red abd. black legs. *Perithous* 1♀. *Perithous* 1♀.
Alexator? 1♂. *Alexator*? 1♀. *Alexator*? 1♀.
Pimpla 1♂. *Angitia*? 3♀♀. 2♂♂ & 3♀♀ (1♀ & 1♂).

24.7.33. Kneath, E.D. cont.

Stenomacrus ... ? 2 pale ... ? 2 ...

Chelonus

Zele testaceator : 100 on tree.

Brach ... *Colasch* ... ? on tree.

Phaenocarpa conspurcator ? 1 ♀ on tree.

Aspilota ... ? 1 ♀, all 30-jointed ...

Bracon

Very wet & no collection made in afternoon of 24.7.33.

25th July 1933. Wet with rain till mid day, fine in afternoon but windy & mainly dull: very warm.

In morning walked up lane off Sligo road, Bundoran, E.D., & with help of Nixon & his "vacuum collector" took some ich on aphid-covered thistles (*C. arvensis*). *Schrenk* ... ?

Stenomacrus of *profligator* ? 2 ♂♂. & the ♂ *Aspilota* attracted.

Pimpla ... *Promethes* ... 1 ♀. *Homocidus* ... 100.

Exochus ... *Aspilota* ... 100 *meloboris* 1 ♀.

Mesochorus of *ultracinctus* ... 1st joint of flagellum longer than 2nd.

25.7.33 cont. 3.0 till 6.0 P.M. No rain, some sun, mostly but very warm.

S. edge of plantation at Travallua, Mullaghmore, Co. Sligo. Aug 1932.

Bombus lucorum 2 ♂♂. *B. lucorum*, *B. agrorum*,

B. terrestris 2 ♂♂, & *B. muscorum* 2 ♂♂, 1 ♀.

Crabro ... & *Mellinus* ... abundant.

Tenthredo ...

Tenthredella ... 1 ♀

Pygidium ... small ♂.

Pimpla ... small ♀. *Aspilota* ... 2 ♂♂. *Aspilota* ... 2 ♂♂.

Pezomachus ... 100, small ♀, 2 large ♀♀.

Schizothorax ... 100.

Sagitta ... 2 ♂♂. *Aspilota* ... 2 ♂♂. *Aspilota* ... 1 ♀.

Exochus ... 1 ♀. *Promethes* ... 2 ♂♂, 1 ♀. *Promethes* ... 1 ♀.

Plectiscus ... 1 ♀. *Aspilota* ... 1 ♀.

Dacnusa (Mecynotarsus) ... 1 ♀. *Promethes* ... yellowish.

Promethes ... 1 ♀. *Promethes* ... 100. *Promethes* ... 2 ♂♂.

Tryphon ... 1 ♀. *Homocidus* ... 1 ♀.

Exochus ... 2 ♂♂.

25th July 1933 cont. Transallua, SL, cont.

Bracon stabilis ♀ 13 sp. 1 small ♂. *Oncophanes lanceolatus* 1♀

Microgaster sp. 2♀, 3♂♂

Macrocryptus collaris, 1 black ♂, 2 white ♀♀ (one from the main)

Oxygaster clavatus 5♀♀, 3 all seen sp. *Leptocryptus* 1♀.

Dacnusa sp. 2♀♀, very small, 1♀. *Blacus* 2 seen.

Opius *lucorum*? 1♀. *Pentapleura* 1 seen.

Aspilota *dehiscens*? 1♀. *A. parvipes* 1♂. *A. sp.* (H)

Pentapleura fulvipes? 1♀. *A. parvipes*? 1♂ & 1♀.

Dacnusa leptogaster? black, 2♀♀. *D. areolaris* ♂ & ♀, one yellow ♂.

D. pubescens 1♀ 1♂.

Aspilota *fracta*? 1♀. *Ap. sp.* 1♂. *Microgaster* 1. *Microplitis* 1.

Aphidius sp. 9 examples.

Chalcid.

Zelotypa ♀ (*Belytidia*) taken amongst *Brassica* & *spin.* & *Artem.*
has virginate red & curved wings.

Taken in Mr. H. Callaghan's garden at "Cassid. m. m. m.", Bundoran, ED.

Bracon 1♀.

Aspilota 1♂.

Taken on 25th 26/7/33, but locality uncertain, possibly near Kinelough, LE.

Stilpnus papalis 1♀.

26th July 1933. A dull windy day, with vegetation very wet after rain in night. Collected in small glen near Kinelough, Co. Leitrim in morning & at Transallua, Co. SL. in afternoon.

Glen N. of Kinelough (tributary of R. Browes), Co. LE.

11.30 till 1.0 PM. *Antrenes* sp. 1♂.

Bombus agrorum & *lucorum* ♀♀. *Vespa rufa*

Aspilota *lucorum* 1♂. *Bracon* 1♀. *Leptocryptus* 3♀♀, 2♂♂.

Phaenocarpa 1♀. *Microplitis*? 1♂. *Pezomachus*? 1♂. *Pezomachus* 1♂.

Pimpla flavicollis? 1♂. *P. ruficornis*? 1♀. *P. sp.* near *dehiscens*, dark ♂, apterous.

Glyptotendipes 2♀♀, small, one black. *Chalcid* 1♂.

Microplitis? 1♂. *Triclistus* 1. *Promethes* 1♀.

Angitia sp. 2♀♀. *Meloboris* (*Diadegma*) *cinnamomea* 1♀.

Bracon sp. ♂. *B. sp.* 3♀♀. *B. sp.* 1♀.

Microgaster 1. *Aspilota* 3 sp. 1♂, 2♀♀.

Microgaster sp. 1♀. *Opius* 1♂. *Aspilota* 1♀.

Aphidius 1 minute ♂, 12 joints antennae.

A strong larva of *Eumenes* (with 12 joints antennae) stuck on grass blade, from this emerged a ♀ *Phygadeuon* *gemmatula* on 4/8/33.

Dacnusa strigata: 1♂ in marsh, field. *D. talara*? 1♂/1♀, small, abundant.

D. areolaris ♂ & ♀ taken: rare, very small.

2 *Proctos*.

26. 7. 33 cont.
3.0 till 6.0 PM. Travelling, edge of plantation, G. SL., as before.

Bombus lapidarius, ♂ examined, in addition to those seen before.

Spizomena troglodytes 2 swept by vision along track in scrub.

2. *incompletum*? 1 ♀

Limastus infimus, ♀

26.7 33 cont. Travelling, SL cont.

Helorus anomalipes, 1 swept in scrub close to gate leading into old track.

27th July, 1933. A dull morning, almost rain, (rain in hills till noon); very fine & sunny in afternoon, but much cooler, with N.W. breeze.

Fields, roadside, saltmarsh, & drain side, along estuary
N. of Streedagh Ho., & behind sand dunes, Co. SL.

Bombus lucorum, apivorus, muscorum (v. cruciorum) & hortorum.

28-7-33 cont. Near Kintbury & Glenside L., G. L.F. cont.

28.7.33 cont. Rushy fields & Carex, about 1 mile S. of
Manorhamilton, Co. LE. 2.30-3.0 PM.

Dacnusa abrita? legs 2 (narrow). D. of ^{1st} *abrita*? 1♀, 27 segments

28.7.33, cont Ship's Wood, G. LE.

Very wet after shower & blowing gale from S.W.

Angels 2 107

3 Proctos

29th July 1933. A fine bright day with N-NW wind,
after a S.W. gale & heavy rain all night. Very sunny!
Spent morning clearing off arsenic of rock, but river brought
me a fine ♀ Amblyteles xanthopus & Bassus ruficornis
from the Tinner sandhills, G. F. D. In afternoon went
again to Travelling.

29.7 33 cont. 2-20-6-30 P.M.

S. end of plantation, Travellina, Co. SL. a before.

Mellin's Food

brake stems abundant on ryegrass lawn in clearing N. of

old tracks through edge of plantation. One large ♀ caught with

grey - a small black dot above = Limnophora
(Pseudolimnophora) fide J. S. Collins, 1934.
truncatissima Fall

C. varius common, with last.

Limnophora
(Pseudolimnophora)
triangulifera Fall.

P. T. C.

30th July 1933. A warm day, rain in early morning, fine in middle part, gale from SE in afternoon & thick rain at 6.0 P.M., after which gale moderated.
Did not collect in morning: went to Travellina in aft.

Travellina, G. St., as on previous day. 3.0 till 6.0 P.M.

Gale made collecting very difficult & all taken by sweeping.

Bethylus 4, Ichneumonidae 12 (2 species of Ichneumonidae)

Phaenocarpa 100, Euclyptus 18, Euclyptus 298

Cryptus 4, etc.

Pimpla sp. 2, small Ichneumonidae 10, Cteniscus 14.

Mesoleptus 18, Phytodietus 100.

Mesoleptus 18.

Pentaneura 2 small testaceae.

Promethes cognatus 10, 18.

Homocidus longicornis 10, 11, etc.

Stenomacrus 10, etc.

Mesoleptus 3, etc.

Blacus 2, etc.

Ulysses 2, etc.

Opus 7, etc.

Aspilota 10, etc.

Bracon 10, etc.

30.7.33 cont. Travellina, G. St., cont.

Cryptus (very small) 12, Cteniscus 2, small P. etc.

Ephedrus

Aphidius

Proctos 8 spp. including 1 -

Oxytelus 1, etc.

Conostigmus 1, etc.

Chalcids 1

31st July 1933. Gale all day, after terrific gale & rain all previous night. Nixon left for London by 3.15 P.M. train. Did not collect all day, though not raining in afternoon. Heavy seas moderating in afternoon.

1st August 1933. Still stormy, with rising clouds & some rain in morning, but clearing about 11.0 A.M. & gradually fine till 4.30 P.M. when wind shifted to S. & misty rain came on for night. Very warm. Spent an hour in morning along left bank of R. Stour at Bundryes, Co. L.E., then road, sweeping & using the new vacuum collector given me by Nixon. In afternoon drove to Bundryes & collected around lough & etc.

1st August 1933 cont.

Left bank of R. Bowes, C. L.E., just above road to Sligo, at Buncrowe. 12.30 till 1.30 P.M.

All insects, including many minute hymenoptera of various groups, taken by sweeping aquatic & semi-aquatic vegetation along river bank, & a few in Iris-filled marsh in field.

Euphranta 13. 10. Silene 10. C. L.E. 10. C. L.E. 10.

Hemiteles 10. small 10. 12. 10. 10. 10.

Euphranta 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Zootapha 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Promethes 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Theridion 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Euphranta 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Microbracon 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Aspilota 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Opius 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Dacnusa areolaris 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Gyrinus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Chalcid 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Ephedrus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Aphidius 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Proctos & Chalcids 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

1.8.33 cont.

Bunduff Lough & Co. SL. 3.0 till 5.0 P.M.

Most insects taken at SW angle of Lough, amongst Angelica & Alder scrub at angle of roads, & a few nearer middle of west side of Lough, & one or two in my private drain in field behind Bunduff dunes. Not separated in bottles.

Antennae 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Ephedrus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

D. reticulatus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

D. similis 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Gyrinus affinis, large var., 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

G. uliginosa 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Aspilota 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Chalcid 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Microbracon 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Microbracon pulchellus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Peripha succulenta, a worm on, possibly on Angelica.

Euphranta 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Hemiteles 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Uliastola 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Proctos 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Chalcid 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

Gyrinus 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

2-1 Aug. 1933. Very close, dull, & mist, rain off and on most of the day: vegetation dripping & sweeping impossible in most situations & some of the latter. Did not collect in morning: drove to Drumahoy, on coast N.W. of Ballintra, Co. FD, but everything dripping & could only collect by picking insects off bushes or roadside with the net sucker. On way home stopped to sweep Iris-filled damp spot near Finian old church between Ballylannon & Bunderan (below Finian camp), Co. FD.

2-8-33. Sucked off *Carduus arvensis*, etc., on roadside at Drumahoy, Co. FD. 4.0 to 5.30 P.M.
Ichneumon? 1 small one with white tail. *Stenobothrus marginellus*?
Phaenocarpa & *Microplitis*? 2 or 3. 248.

Microplitis? 1 ♂ + ♀. *Pezomachus* ♀. *Microplitis* (body) ♀.
Lissonota corollae? 1 ♂.
Homocidus cinctus? 1 ♂.
Dacnusa? 6 or 7. *Aspilota*? 1 ♂.
Mesochorus latibasis? 1 ♂. M. sp. 1 ♂.
Meteorus 1 ♀.
M. Proctos.

2-8-33 cont. Mainly spot by roadside, near Finian old church, Co. FD. 6.15 - 6.30 P.M.

The result of three sweeps amongst Iris, meadow-sweet, mint &c. Cryptid 1 ♂. *Meloboris* (*Microplitis*) *crucians* 1 ♂.
Sagittaria erythropus 1 ♂. *Stenobothrus* ♂ & 2 ♀♀ (1 ♂ seen & 1 ♀).
Meteorus 1 ♂. *Perilitus bicolor*? 1 ♀. *P. albipes*? 1 ♂.
Opius 1 ♀. *Proctos* 1 ♂.
Aphidius 5 or 6 seen.
Aspilota 1 ♂.

Dacnusa abdita? 1 ♀, with large pale stigma, & ^{very faint} trace of plumose ^{groove}.
D. areolaris ♂ & 2 ♀♀: none kept.
Chorebus conjugens 1 ♀.

Euclyptus 2 seen, from *testaceum* leaf.

3rd August 1933. Very warm, dripping all morning & only fairly fine in afternoon, no wind & no sun. Many insects! Did not go out till 12.0 noon & then drove to glen, N. of Kinslough, Co. LE (as on 26.7.33), here although actually "misty" & everything dripping, I managed to sweep quite a few insects, including some good *Dacnusa* etc. In afternoon went again to Travellan & swept sides of old track through scrub, shallow depression beside track, side of stream S. of track, & part of scrub drain which crosses track & runs N. towards the "cave". Also swept some insects on my home at Bundoran along roads from Mullaghmore fork, N. of Bundall Long.

3.8.33. Glen N. of Kinslough (in angle of road from Bundoran & Ballykeshon), Co. LE. 12.30-1.30 PM.

Hemiteles or small *Stenobothrus* 1 ♀. *Stenobothrus* small ♀.
Microgaster 1 ♀. *M. sp.* 1 ♂. *Apanteles* 1 ♂. *Apanteles* 1 ♀.
Acrogastris, red line to abdomen 1 = ? *A. elegans* ♂.
Microgaster confusus 1 ♂.
Pentapleura punctata ? 1 ♂.
Aspilota 1 ♂.

Dacnusa *leptogaster* - black form 1 ♂ (subsequently taken & dissected). *D. areolaris* 1 ♂.
D. areolaris 1 ♂. *D. areolaris* 1 ♂. *D. areolaris* 1 ♂.
D. areolaris (last taken off & replaced) 1 ♂. *Chalcid* 1 ♂.

3.8.33 cont. Travellan, Co. SL.

Just dry enough in spots to sweep, very warm & still.

Many insects brought home unmounted! (These not included in list below)

Epitoma pygmaea 1 ♂. *Abia sericea* 1 ♂, 1 ♀ taken; others seen.
Dacnusa 1 ♂. *Pezomachus* 1 ♀.
Pimpla "similis" 1 ♀. *Atypterus laticornis* ? 1 ♂.
Genesha melleocephala ♀. *Lagarotis pubescens* ? 1 ♀.
Stenomacrus sp. 2 ♂, 1 ♀. *Promethes cognatus* 1 ♀.
Diprion ? 1 ♂, 2 ♀, sp. *Mesochorus* 1 ♂, small ♀.
Stenobothrus spp. including 2 ♂ *Pezomachus* *aphidivorus* Hal.
Microgaster 6 seen.

Microgaster *ulterior* 3 ♀♀. *Oxytelus stans* 4 ♀♀. *Sigalphus caudatus* ♀.
Chalcid 1. *Chalcid* 1. *Microgaster* 1.
Microgaster 2 ♂♂, 2 ♀♀, several sp.
Blacus 2. *Blacus* 1. *Blacus* 1.
Opius 1 ♂.

Chalcid *leptus* 1 ♂.
Pezomachus ? 1 ♂, small ♂. *Phaenocarpa ruficeps* ? 1 ♀.
Dacnusa *prostrata* 1 ♀. *D. leptogaster* ? 1 ♂, 1 ♀. *D. areolaris* 1 ♂.
D. gilvipes 1 ♀. *D. areolaris* 1 ♂. *D. areolaris* 1 ♂.
D. areolaris 1 ♂, 1 ♀, (1 ♂ large, 1 ♀ small). *Chalcid* *conjugens* 1 ♀.
Chalcid 1 ♂. *Ephialtes* 1 ♀. *Aphidius* 1 ♂. P.T.O.

3.8.33 cont. Travellina, Co. Sl., cont.

Scrub on E side of road from Travellina to Mullaghmore, just S. of fork, ^{N.Y.} at Bunduff Lough, Co. Sl. Labeled "Bunduff" ^{Co. Sl. 3.8.33}

Pezomachus fasciatus 1♀. *Calopteryx* 1♂.

Mesochorus fulvipes 3 1♂. *Oryctes obscurator* 1♀

2 *Proctos*

2 *Chalcids*

Xanthus 2♂ 1♀

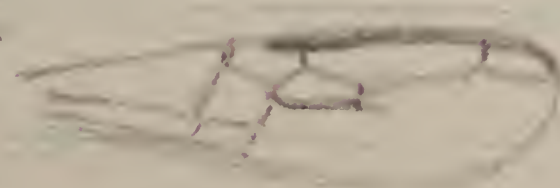
1 specimen taken this date found in 1938 labelled
4.10.33 + 2♂ 4.8.33! A.H.S.

4th August 1933. Very sunny, & not misty for once, turning fine & sunny in afternoon at 4.30 PM.

Did not go out in morning, but went to Travellina, Co. Sl., again & swept sides of track & depression beside track beyond road (=1)* & rough drain, N of track (=2)*. 3.30-6.0 PM.

Many insects brought home unmounted.

In the first sweep at 2 I took a very queer (? a freak) Chalcid with enormous head & body, like *Paracremastus* in shape. The arrangement suggests a possible freak of *Aspilota* & two other ♂♂ with similar head, but normal nervation, taken during afternoon (also one the previous afternoon). The wings ^{are} like →



* These taken at 1 not so mounted, but those taken at 2 all labelled Travellina (2). A.H.S.

4.8.33 cont. Travellina, Co. Sl., cont.

Crabrobyia 1♂ 1♀ taken, others none at same place as on 29.7.33.

Halictus leucopus 7 at 1.

Chalcid *proserpinus* (1 var. *proserpinus* Hal.) 2 in, small ♀♀, all small wings.

Hamula *montana* 3 1♀. *Calopteryx* 2 1♂ & 1♀ (1 attached).

Hamula 2♂ or *Pezomachus*, 1 red ♂, nervation red & small & transparent. Also 1 minute 1♂ curled, with darker nervation.

Cryptopimpla blanda 3♀♀ at 2.

Glypta *manicata* 1♀ at 1. *G. nigro-ventralis* 1 large ♀ at 1.

Bracon *varicornis* 1♂. *Bracon* *scutellator* 1♀ at 1. *B. subulatus* 1♂.

B. ruficornis 2♂♂, 2♀♀. *Apanteles* 2 1♂ 1♀ (one larger than other).

Chalcid *testator* 1♀ 1♂. *Mesochorus* small, red & black, ♀.

Mesochorus 1♀ at 2, black thorax & light orange abdomen.

Plectiscus 1♀ curled. *Stenomacrus* 1♂ 1♀ at 1. 1♀ at 2.

Rhysa. not a black, 2♀♀ (? both) at 2.

5th August 1933. Very hot, all sunny, very close,
almost windless. Drove to Shrip wood at head of
L Gill, Co. LE & collected there for about 3 hours; then
back to Long Bogagh, Co. SL, where collected for an
hour on margin (S. slope S. of, below road) of the lake. Did
have a substantial outlet.

Shuff Wood, Co. LE. 1.0 till 4.0 PM. Extreme damp, heat.

"Swept marshy spots in wood & stream, & extensive
swampy place behind hay fields at N.E. corner of L. Hill
where the wood ends.

Bombus agrorum, *lucorum* (1820, p. 99), *lucorum* ~~maximus~~

77c

Collantes brachycomis? 292.

Chrysomelids 10⁵ (Koke lot 1)

Sacrum postica ♂ 1 and ♀, D. *Cylogaster*, 2 sp., #32 juvenile anterior
Feb? name of a person possibly from Transilvania

S. 8.30 cont. Slope below road at S. shore of
Lough Bolgagh, Co. SL. 5.30 till 6.30 P.M.

Lyrica pa. virginica 200019 *G. affinis* 100001

Sacnum albidula ? 1 pair ♀ This is made a paratype of *h. 9* and *h. Nixon*
fide Nixon 9.11.1936. A.W.S.

L. kept $\frac{4}{7}$ of it. $\rightarrow \rightarrow$... L. due to $\rightarrow \rightarrow$

9th August 1933. A fine day, with some glass & strong breeze, cool, westerly wind. Few insects out.

Woods & meadows at Kneether, between Ballyshannon & Belleek, Co. ED., on 24.7.33.

Bombus agrorum 1♀ was the only aculeate seen!

Pterobothris 1♂. *Colletes* 1♀.

Halictus 1♂. *Pompilus flaviventris* 1♀. *Stenobothrus* 1♂.

Leucospis 1♂. *Stylomyia* 1♀.

Euclyptus 1♂. *E. libanotis* 1♀. *Promethes* 1♀. *Homocidus* 1♀.

Aspilota 1♀. *Phaenocarpa* 1♀. *Trioxys* 1♀.

Rhyssalus 1♂. *R. bicolor* 1♀.

Chalcidius 1♂. 1♂ in meadow at Ballyshannon.

Microgaster 1♀.

Oncophanes 1♀. *Conoclytus* 1♀.

Opius 1♀. *Apanteles* 1♀. *Phaenocarpa* 1♀.

Pentapleura 1♂. *P. angustula* 1♀.

Aspilota 1♀. *C. sp.* 1♀.

Dacnusa 1♂. *D. lateralis* 1♀. *D. areolaris* 1♀.

D. areolaris, 1♂. *D. lateralis* 1♀. *D. areolaris* 1♀.

Chalcidius 1♀.

Rhyssalus 1♀.

9.8.33 cont. Kneether, Co. ED. cont. Many Chalcids & Pterob.

10th August 1933. A very fine day, with much sun. In morning returned to meadow, near Finnis old church, beside Ballyshannon road, Co. ED.; & in afternoon to Travellin.

Finnis meadow meadow, meadow, meadow just E. of Finnis old church, Co. ED. on 2.8.33.

Dacnusa rotundiventris 1♂. *D. areolaris* 1♀.

D. areolaris 1♀. *D. lateralis* 1♀.

Chalcidius 1♀. *Chalcidius* 1♀.

Pentapleura 1♀. *Sylphid* 1♀.

Microgaster 1♀. *Microgaster* 1♀.

Phaenocarpa 1♀. *Phaenocarpa* 1♀. *Phaenocarpa* 1♀.

Stylomyia 1♀. *Stylomyia* 1♀.

Promethes 1♀. *Promethes* 1♀.

Aspilota 1♀. *Aspilota* 1♀.

12th August 1933 Another perfect day: all sunny.
Left Bundoran at noon & drove on to Killybegs.
Stopped & collected at Larne, W. of Newcastle, Co. LD.,
for lunch & later collected a few insects on shore
near Lintagh, West of Killybegs, Co. LD.

March, with Jim, roads, etc., at one hour, along left
side of Lough Water, at Larne, just below
steep bank on which side road runs. Good ground.
1.30 till 2.30 PM. Co. LD.

Bunch of *Spentia* or *Mingus* common taken on both grass from which
intelligibly emerged some (2 or 3) of *Stenocranus* on 21st Aug. (3), 2nd Sept. (2), 4th & 5th Sept.
(1 each) 1933. These 99% of two other species.

Body of young caterpillar found in grass (along E. of *Phragmites*) from which emerged
on 12th Aug. 1933 a *Stenocranus*, namely, *Stenocranus* ♀.

Phaenocarpa *superciliosa* 1 ♀.

Phaenocarpa " 1 ♂. Early taken on 11th.

Phaenocarpa *impressa* 1 ♀ taken on steep with *Phragmites*.

Acridactyla *degeni* 1 ♀.

Hemiteles ♂ & 2 ♀♀ of 3 spp. ? collected.

Stenomacrus ? a large yellow found & collected.

Bracon fulvipes 1 ♀. *Phaenocarpa* *bioculata* ? 1 ♀.

Opius 1 small ♀.

Alysia *republicana* ? 1 ♀.

Aspilota 1 ♀.

12.8.33 cont. Bundoran Larne etc. cont.
Stenomacrus ♂ & ♀ 2 ♂♂ & ♀♀ of *Stenomacrus*, all collected on 12th.
1 ♀. *Hemiteles* 1 ♂ & 1 ♂ & 1 ♂ & 1 ♂ of small or of small.
Phaenocarpa *republicana* 1 ♀. *Phaenocarpa* *conspicua* common.
3 more little *Proctos*.

1 long-bodied ♀ of *Chalcid* (1st *Trogus* sp.)

12.8.33 cont. afternoon. 5.0 till 6.0 PM.

Shore of small rocky inlet, E. of Lintagh, Co. LD.

Centistes *immaculatus* ? 1 ♀. } under seaweed.

Hemiteles ? ♂ & ♀♀. } on shore of creek.

One has perfect wings
it is probably another species!

Enochus *fulvipes* ? 1 ♂ caught amongst rocks about 10 ft above high tide.

13th August 1933. Did not go out in morning & most of rain
all afternoon & evening. Caught one ♀ *Hemiteles* on wall of toilet
outside bedroom window (3rd story). *Epilophus* *humilis* growing in lawn
to shore beyond detached *Scabiosa* *trachelium*.

14.8.33. A perfect day, with falling barometer & followed by depression with heavy rain at night.

Drove to Orocopia River, beyond Carrick, Co. WD & ascended Sliem League, from N.E. & One Man's Path (much overrated as regards danger) & returned by N.E. slope & Long Lough (in which are *Linnæa perenne*, *Heterozygia nuda*, *Polygonum*, *Lotus*, *Sparganium*, *Littorale* (& ? *Ercta*), but saw no sign of any bryophytes, though I had hoped to rediscover *Epheura lappaceum* there. Hymenoptera by no means scarce on sheltered rather covered slopes, but mainly *Psyllids*. By sweeping rocks, &c. several *Proctopids* taken & 1 ♂ *Chorebus corymbosus* 1. A large isolated barack of *Juncus* ^{at about 1500 ft.} *affinis* on S.E. slope (S.E. of Holy Wells) I swept large numbers of *Apariteles* (7 of which only taken & then also swept. In middle of One Man's Path took or collected & another of same species also taken near summit.

Bombus muscorum & *jonellus* frequent on heather to at least 1,500 ft.
B. agrorum 1 ♂ seen during descent.
Apis mellifica ♀♀ abundant on heather & at least 1,200 feet.

2 ♂ 3 ♀ cont. Sliem League, WD. cont.
Polistes 1 ♂ 1 ♀. *Hemiteles* 2 small specimens.
Euphranta 1 ♂ 1 ♀, all black. *Euphranta* 1 ♂ 1 ♀, all black.
Phaenocarpa 1 ♂ 1 ♀.
Microgaster 1 ♂ 1 ♀. *Tryphon* 1 ♂ 1 ♀, dark, pale.
Chorebus 2 ♂ 1 ♀, 1 ♂ 1 ♀, on rocks, in middle of grassy field, etc. etc.
Apanteles 1 ♂ 1 ♀, out of many collected in same place, at about 1500 ft.
Chorebus 1 ♂ 1 ♀, at about 1,100 feet, on rocks, N.E. of L. Lough.
Cynipids 1 ♂ 1 ♀.

14.8.33 afternoon. 5.30 PM.
 Collected a few species by sweeping near on edge of Orocopia, N.E. of Sliem League, where in L.H. car. Co. WD.

Glypta elongata 1 ♂, very red.
 2 ♂ 1 ♀ *bryophila*.
 2 small *Psyllids* 2 ♂ 2 ♀.
 1 ♂, with black & red, 1 ♂, 1 ♀, very small & dark. 1 ♂ 1 ♀.
Perilissus 1 ♂ 1 ♀.
Phaenocarpa conspurcator 1 ♂.
Dacnusa sp. 2 (1 ♂ 1 ♀) 1 ♂.
Aphidius 1 ♂ 1 ♀.

15th August 1933. A poor day, with high W. wind & frequent showers, after sun & rain all night. In afternoon drove to Ardara, Narin, Portlough & Rosbeg & home. ^{Col. G. W.D.} Took *Perithous* *juniperi* & in marsh near Narin, & *Glypta elongata*? ♀, not in marsh by outlet of Kiltoran Lough, but vegetation too cut & wind too high to expect any results by sweeping. Hemiteles ♀ (same as taken on 13th) taken inside bedroom window.

In evening a few species taken with snapper along ditch on old road from Killybegs to Ardara & about 1 mile N. of former.

Euclyptus ♀
Homocidus cinctus ♀ of black form.
Mesochorus red ♀.

Oecusse chrysota? 1 ♂.
Aphidius 1 ♂.

16th August 1933. A perfect day, nearly all sunny, with S.W. wind. Drove via Carrick to strand at Malin Beg, where collected a couple of hours, then to Gleneshankill, where collected along roadside W. of village & in marshy fields N. of village. All Col. W.D.

Marshy spots above & on slopes above strand, & sandy slopes below cliffs; Malin Beg, Co. U.D.

12.30 - 2.30 P.M.

On the cliffs behind strand a most curious association of plants occurs, including *Juniperus nana*, *Schoenus nigricans*, *Populus tremula*, *Eupetrum nigrum*, & at foot of cliffs in one gully a magnificent patch of Maidenhair Fern (*Adiantum capillus-veneris*). The last grew with in part of the sand & covered a patch of calcareous tufa on the sheltered side of gully (facing E!), actually below the level of some of the ordinary marshy plants. *Helix nemoralis* covered the cliffs right down to foot of cliffs. Near northern end of bay, where cottages grew, were many of *Helix* & other aculeate.

16.8.33 cont. Malin Bay, C.W.D. cont.

Bombus agrorum & *B. lucorum*, 1 Jaded ♀.
Halictus calceatus ♂♂ common. *H. alpestris* ♂.
H. freyermanni ♂ at south end of cliffs.
Crabro palmipes ♂♂ & ♀♀ on coltsfoot.
Mellinus arvensis
Chrysus ignita large example seen on stone.

Allantus cinctus ? ♂ on coltsfoot.

Pimpla ... *Leucostictus* ...
Barichneumon ? ... *Euphranta* ...
Promethes laticarpus small *Enochus flaviventris* *Stenomacrus*
Microgaster ... *Epura* ...
Phaenocarpa ruficeps 1 ♂.
Aspilota distincta ? 2 ♀♀ ... 4 ♂♂

Chasmodon amplexus

Daenusa areolaris by drain in top of cliff. 2 ♀♀ mtd. (one with abdominal)
D. sp. ... 1 ♂ with 20-jointed antennae, ...
 about 20 feet above strand at S. end of cliffs.

D. leptogaster? 1 very black ♀. *Gyracampa affinis* small ♀. *Chasmodon amplexus* 2 ♂♂.
Ephedrus ...

D. ruficornis. Both Field near. 14/11/38.

16.8.33 cont. Glencolumbkille C.W.D.

4.10 till 5.30 P.M.

Collected G.C. Cille
H. C. Cille
at
10. W.D. A.W.S.
16.8.1933

Scout along roadside N. of village & in various places in fields N. of village & down, near new concrete bridge over the northern river.

Phaenocarpa ? 1 ♂. *Stenobothrus* 1 ♂. *Chrysus* ...
Euphranta ... *Promethes ruficornis* ? 1 ♀
Microgaster ? 1 ♂.
Meloboris 1. *Leptogaster ruficornis* ? 2 ♀♀
 & the *Leptogaster*

Meloboris 1 ♂. *Synaldis* ... 1 ♀
Perilissus ...

Aphidius spp. 2 ♂♂

Chasmodon amplexus 5 ♀♀

Daenusa areolaris ♀♀, none mtd.

D. strigata 1 ♂. *D. sp.* ... 1 ♂. *D. sp.* ... 1 ♂.

D. sp. (blackish) ? 1 ♀. Also ... 1 ♂.

Gyracampa affinis ... 2 ♂♂ & ♀♀ ...
 var. *majus* ♂♂ & ♀♀ abundant in drain filled with rushes &c, near bridge.

4 *Proctos*
 3 *Chalcids*

17th August-1933. Frosty rain & S.W. gale all day, following arrival of another depression during the night.

In afternoon drove to Brackles, Co. WD. & attempted to sweep roadside & meadows in fields until further rain made collecting quite impossible.

Rushy fields, roadside, &c., Brackles, WD.
Stenobothrus debilis 1♂ (very late date!)

Hemiteles 2 small ones (one very small) *Stygobromus* ? 1♂. *Stelgidopterus* 2♂♂

Pimpla 1♂ *Leucospis sulphurea* 1♂ on *Agrostis* & roadside.

Euphorbia 1♂ *Promethes sulcator* 2♂♂ *P. laticeps* 2♂♂

Microplitis apiculator 1♂ *Brachymeria* 1♂, 1♀. *Meloboris* 2♂♂, 1♀.

Aspilota 1♂, 1♀. *Aspilota* 1♂, 1♀ (from 1♂).

Aspilota 2♂♂

Stenomacrus 1♂ *Opis* 1♀

Dacnusa strigata 1♂, 1♀.

D. strigata (field collected) 2♂♂, 2♀♀

3 *Chalcids*, 1 *Proctos*, 1 *Euclyptus*.

18th August-1933. A poor day, however & much rain almost all day or at least at frequent intervals & sweeping only possible with a wet net. Yet small hymenoptera plentiful!

Sweeping fields at Brackles, Co. WD.

as on previous day. 11.30 till 1.0 P.M.

Selandria morio 2♀ *Therion* 1♀

Hemiteles 2♂♂ small & corded. *Promethes debilis* 2♀ corded

" *Promethes* 1♂, 1♀, corded. = *Hemiteles fulvipes* 1♂, 1♀

Microplitis 1♂ *Aspilota* 2♂♂

Stenomacrus 1♂ *Opis* 1♂, 1♀

Dacnusa areolaris 1 large ♂, 1 small ♀, only mounted. common.

D. strigata 1♂, 1♀. 2 (*retundicincta*?) 1♂, 1♀.

D. strigata 1 red ♀.

Gyrinus 1♂ *Gyrinus* 1♂, 1♀

Chalcid 1♂, 2♀♀

Stenomacrus 1♂ *Leucospis sulphurea* 1♂

Glypta elongata 1 small dark ♀. *Euclyptus* 2♀♀(?)

Promethes sulcator 2♂♂. *P. laticeps* 1♂ *Hemiteles* 1♀

Meloboris 1♂ 2♀♀, 2♀♀. *Aspilota* 2♀♀.

18.8.33. At dinner, 2 P.M., M.D.S. found small *Proctos* or *Chalcid* crawling on table in Coombe Hotel, Killybegs, WD.
= the *Andrena* parasite

18th August 1933 cont. Afternoon!

Bonnie Cottage, & field N. of same, on
Bracklen peninsula (opposite Kellybegs), Co. WD
3.30 till 6.0 P.M. Several others!

Most ich taken in lee of Fuchsia hedge in
front of cottage. Most Braconids taken by
sweeping marsh in field adjoining.

Tryphon 10, 1st inst. 1.

Homocidus 2 (1st inst. 1) *H. on stump* 7 (1st inst. 1).

Pezomachus 1 ♀ *Glypta elongator* 10, 1 ♀, 1 ♂.

Promethes 10, 1st inst. 1. *Homocidus pallipes* 1. *Ichneumon* 10, 1st inst. 1.

Microgaster 10, 1st inst. 1. *Exochus* 10, 1st inst. 1. *Exochus* 10, 1st inst. 1.

Triclistus globulipes 1. *Tryphon* 10, 1st inst. 1.

Angitia 10, 1st inst. 1.

Microgaster 10, 1st inst. 1.

Microgaster 10, 1st inst. 1.

Rhyssalus 10, 1st inst. 1. *Chalcid* 10, 1st inst. 1. *Angitia* 10, 1st inst. 1.

Opus 10, 1st inst. 1. *Aparite* 10, 1st inst. 1.

Dacnusa 10, 1st inst. 1. *D. areolaris* 10, 1st inst. 1. *D. areolaris* 10, 1st inst. 1.

Chalcid 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1. *Aspilota* 10, 1st inst. 1.

Chalcid 10, 1st inst. 1.

Proctos 10, 1st inst. 1.

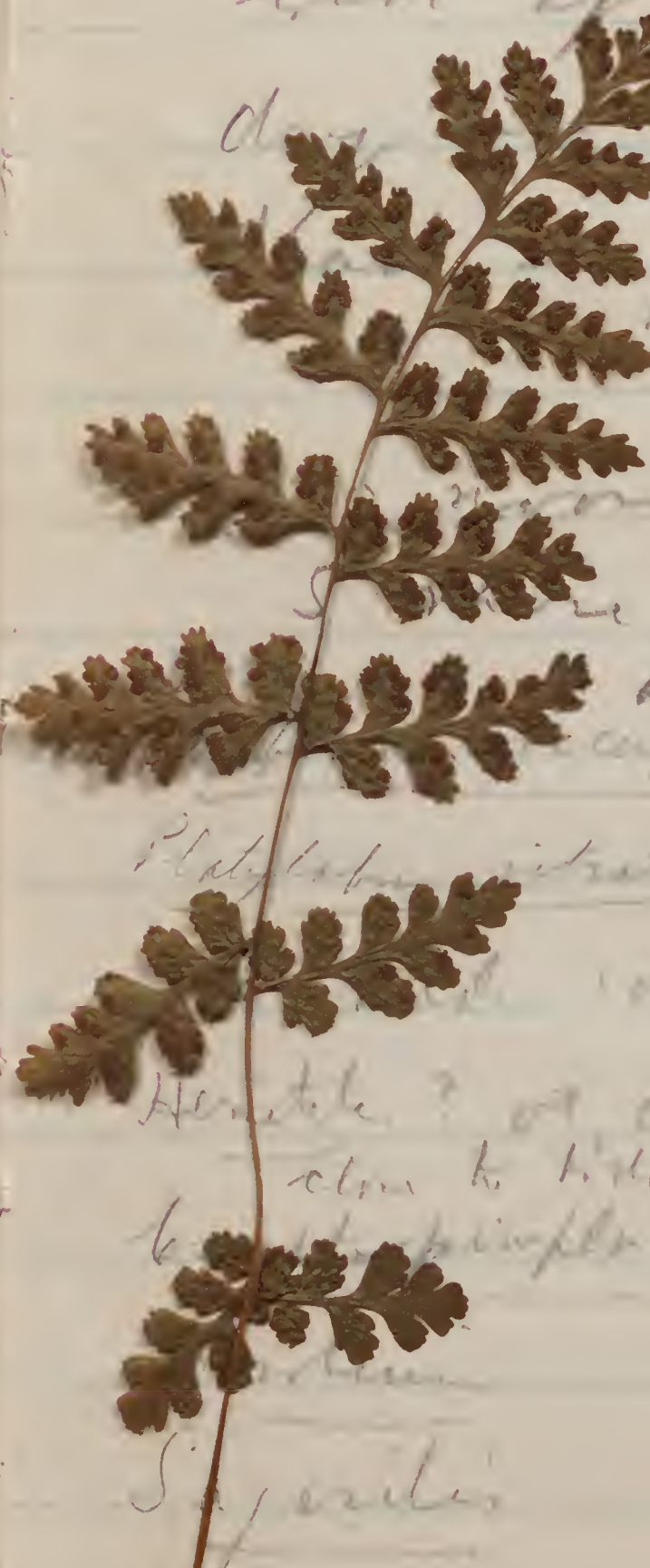
Scelid 10, 1st inst. 1.

Gyrus 10, 1st inst. 1.

all very fine
very fine
very fine

19th August 1933. A fine day, with much
sun & strong westerly breeze.

Left Kellybegs at 9 A.M. & arrived home in
Dublin at 7.30 P.M. Stopped in Sanderson
for various items & to collect at Lough
Toberscaneran, Co. SL. & Castle Forbes, Co. LF.
on 22.7.33. Everything wet in the
west after a week's rain, off on; all burnt
down in Dublin & many 'Sanitages', etc., great
garden!



... till 1.15 P.M.
... of L. Toberscaneran, Co. SL.

Tryphon 10, 1st inst. 1. *Barichneumon* 10, 1st inst. 1.

Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

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Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

Phaenocarpa 10, 1st inst. 1. *Phaenocarpa* 10, 1st inst. 1.

Garden at 14 Clareville Rd., Harold's Cross, Dub.

25th Aug 1933 8 PM.

2 m. *Vespa vulgaris* ♀.

Triclistus 1 m. ♂

Stenomacrus

♂, with pale yellow legs.

26th Aug 1933 7.0 PM.

2 m. *Hamula*

1 ♀ *Hamula picta* 100, small.

Apilata 1 ♀

Several small *Proctos* &.

27th Aug 1933 7.0 PM.

Pimpla maculator 1 m. ♂, not kept.

3 m. *Hamula* 2 ♀♀ 1 ♂

Anomalid 1 ♀

Pterostichus ? small ♀, curled.

Dacnusa ^{of this} *abundans* (100 ♂) I don't remember taking this, but may

have (with such) taken it in White Cross on 1st Sunday, July 1st 1858.

Proctos

28th & 29th Aug 1933 *Phaenocarpa* black 1 ♂ 1 ♀ red 1 ♂ 1 ♀ *Lophocampa* 1 ♂

Hamula picta 100 *Stenomacrus* 1 ♀ *Hamula areolaris* 1 ♀

Mesochorus 1 ♀ *Cryptus* 1 ♂

Bracon triangularis 1 ♀ 1 ♂ *Stenomacrus* 1 ♀

Dacnusa areolaris 1 ♀, with larva. *Opius* 1 ♂ *Aphidius* 1 ♂

27th August 1933. Very wet (except in Dublin) with SE gale & almost continuous rain all day. Very warm.

Drove to Athy, with J. A. J. Palmer, & on to Kildare Castle demesne, where in spite of rain *Bombus* & ich. very numerous & some actually flying. Inevitably town to collect, though in brief intervals taken shown some 20 specimens obtained from under sides of leaves of oak, birch, hazel, &c., in woods in demesne, Co. KD., 11.30 till 2.30 PM.

Bombus agrorum, *muscorum* 1 ♂ (Palmer), *terrestris*, & *lapidarius* 1 ♂ seen [also 1 ♀ *gervillii* on *Sedum* *succisa* near Ballitore, Co. KD.]

Diplolepis proserpator. *Orthocentrus ruficornis* 1 ♀

Chalcid *Hamula* ? 1 ♀ curled

Triclistus 1 ♀ *Hamula areolaris* 1 ♂.

About 1 dozen *Bombus*!

Phaenocarpa indagator 1 ♀. *Chalcid* *terrestris* 2 ♂♂. *Heterocampus* 1 ♀.

Polyblastus bipudians 1 ♂ 1 ♀. *Bombus* 1 ♂.

2 *Proctos*.

3 *Chalcids*.

One of them compared 28/12/1937 & agreed perfectly with a ♀ in Royal Scottish Museum (in *Hamula* Geo. 1858-13) lent me by H. R. Waterhouse & supposed to have been named by Haliday & given by him to Graville. D.W.S., 28/12/37.

30 & 31 Collected on The Mallard, Co. W. Mayo, by
E. O'Keefe.

Pezomachus 1 ♀

Pimpla brevicornis 1 ♂

Tryphon red ♀.

3rd Sept. 1933. A beautiful day, but too dry (55°) for insects: almost all sunny & suny, hot.

Museum of Wicklow, at Killoughlin old station.

Most collected in marsh behind station & by lane leading thence, but some taken along railway line on *Pampinella* & *Danvers*, some also taken in marsh (by track to farm) about 3/4 mile N. of old station. Clouded Yellows frequent & much chased by George, & J. A. J. Palmer, who was with us: only a few ♀♀ seen & none of ♂♂ seen. *Helix*.

Bombus lucorum 1 fresh ♀, with white pollen in baskets seen gathering (nectar & pollen?) at *Angelica* & *Bramble* in lane. Very extraordinary!! on this date.

B. hortorum ♂. *B. agrorum* & *muscorum* ♂♂ & ♀♀ & ♂ of latter.

B. lapidarius ♂♂, ♀♀ & fresh ♀.

Psithyrus laticollis ♀. *C. campestris* ♂ (Palmer).

3.9.33. cont. Killoughlin, Co. WI. cont.

Vespa vulgaris ♂♂ common.

Penthecta "arenaria" ♂♂ & ♀♀ on *Danvers*, etc.

Selandria nemus ♂, examined.

Blacus pectoratorius common ♂ along by line.

Black ♀. Red legs = *Psilophorus*, obstructing?

Tryphon. 3 small ♂♂ & 1 ♀ noted.

Pimpla detrita 2 fine ♀♀ in marsh, with short terebra!

Glypta elongata ♀, examined.

Microgaster fuscicornis ♂♂ & ♀♀ on *Danvers*, etc.

Phaenocarpa rufipes ♂ in marsh.

Chistopyga rufator ♂, somewhere in marsh.

Promethes subaeneus 1 small ♂, 1 fine ♀. *P. dorsalis* 1 ♂, 1 ♀ (♂ with terebra in joint of *Phaenocarpa*).

Hormius ruficornis 2 small typical ♂♂, also a third ♂ with no areolet & rather dusky tint over & end of abdomen not as clear & well marked as *H. hypoleucus* Th.

Zostrophus ruficornis 1 ♂.

Diapriids? 1 ♂.

3.9.33 cont. Killybegs, G.W., cont.

Bracon black sp. ♀, like *revictor* but darker terebra, like *colpiformis*, but palpi black.

B. pubescens 1♀. *B. erythrochila*, var., 11♂♂, 3♀♀, very minute.

B. sp. ? (2 dark legs, small, var. of *erythrochila*) 3♂♂, 1♀.

Apanteles sp. (4 palpi) 2♂♂.

A. sp. 1♂.

Microgaster globatus 1♂, 1♀.

Opius *exilis* 2, 1♀. *O.* cf. *pallidipes* or near this 1♂.

Dacnusa areolaris only one or two in mesh: Nixon agrees, 2♀, var. *areolaris*, 13.1.37.

Pygostolus affinis large form ♂♂ by chain behind station = *D. areolaris* Nixon agrees, 13.1.37!

small ♀♀, several? only one mtd. which Nixon agrees is *affinis*! 13.1.37.

Chorebus conjugens by chain behind station.

Collected at Barton, The Mullat, Co. W. Mayo, by E. O'Shaughnessy on 1st & 2nd Sept. 1933.

1.9.33. "On windows of shed used to store oats"

Dacnusa black sp. 1♂ & 5 *Proctos.* =
? sp. ? Nixon, 13.1.37.

2.9.33. *Bethyla fuscinervis* 1♀. Small *Microgaster* *Proctos.* 1♀.
Microgaster? 2

2.9.33. "By sweeping drain & marshy fields S.W. of village" of Barton.

The following species examined, but not kept: -

Helictes altipes 3♂♂, *Campoplex braconiformis* 2♂♂

(one small & elongate, the other larger & stouter) + 3♀♀.

Glypta elongata 1♂, 1♀, *Microgaster* 1♀, *Dacnusa*

tellator ♂ & ♀, ♂ of the common red *Microgaster* (*Microgaster* ?)

), *Dacnusa ruficornis* 2♂♂ & ♀, *Promethes subulatus* ♂ & ♀.

Some others mounted & some stored dry!

[*Spilostethus* *variegatus* 1♀ taken in shed!] *Dacnusa* *subulatus* 2♀, 1♂, 1♀.

Microgaster 1, *Glypta* 1♂.

Dacnusa areolaris 1 large ♂, 1 small ♂, 1♀. 1♂, 1♀, 1♂, 1♀, 1♂, 1♀.

4.9.1933. Collected by E O'Malley at The Banks,
 behind Aghlea ^{near Aghlea}, The Mulllet, Co. WM., 1
Bombus lapidarius 2 ♀♀. *B. agrorum* 1 fided ♀,
B. muscorum 1 fided ♂, 3 ♀♀.
Penthyus campestris a beautifully fided ♀ of var. rossiellus
Halictus villorum 2 fided ♀♀. } labelled "Newtown" see below.
Melissae annuus 1 ♀. } "Castro"
Gallia pumilio 2 small ♀♀.

Epitoma pygmaea 2 1 ♀.

Heliconia eldorado 1 ♀. ✓ Nixon 1937. Ant. spec. 12/3/37.

Diapars estella Nixon (= *gymnopa* sp. nov., large var.) 2 ♂♂

Proctos. 2

Chalcid 1 var ♀, long terebra

Cynipid 1 very small.

5.9.33 Collected by E O'Malley at Newtown,
 The Mulllet, Co. WM. 5.9.33.

Pentapleura fulvipes ♀ (damaged). R.C.B. 17.9.34. Cf. 1.9.191 8.

Gallia pumilio 3 small ♀♀.

Pezomachus fasciatus 1 ♀. P. sp. 1 ♀.

Hemiteles ♂ ♂ with arched near parastigma

Microgaster infimus 1 ♀. *Perilitus* sp. 1 ♀. with
 very short antennae, not head ♂

5.9.33 cont. Newtown, The Mulllet, Co. WM. E.O.M. cont.

Opisus *lupinus* 1 ♀.

Diapars ♂ ♂ = senilis ♂ ♂ fide Nixon, 13/1/37.

Allice contracta 1 ♀

Ephedrus validus 1 ♀

Proctos. 4 =

Chalcid 1

Cynipid 1.

7.9.33. Collected by E O'Malley at Aghlea,
 The Mulllet, Co. WM.

Bombus ruginosus 1 ♀

Diapars of *geminus*, 1 ♂, 1 ♀ 2 segments short.

Melissae 2

Pezomachus fasciatus 1 ♀.

Diapars of *calyptratus* 1 ♀.

Sigalphus caudatus 2 ♀♀.

Apanteles ♂ ♂ 1 ♀. *A.* sp. 1 ♀.

Microgaster ♂ ♂ 1 ♀.

Microgaster ? ♂ ♂ 1 ♂.

Diapars *obscurus* ♂ ♂ 1 ♀.

Opisus sp. ? 1 ♂ in bad condition, feet with fungus.

Proctos. 6 =

1932

1933

1933

16th Sept 1933. All morning, but very strong, bitter, E. wind & no sun at all, partly owing to the wind & partly owing to the prolonged drought.

Went N. of station road, Gormanston, Co. Du. The few insects taken were in the shelter of hedges &c. along the lane leading to the old aerodrome from the Rose.

17th Sept. 1933. A poor day, almost raining, with falling glass & strong winds from SE-SW. The first break in weather since 27th Aug.

Drove to near & the along Rathfriland road to Victoria Bridge (over R. Liffey) & over railway & collected in marsh N. of road & W. of railway from 11.30 till 12.30.

Insects taken here labelled

Morrisstown
C. KD. AWB
17.9.33.

3 *Bombus agrorum* & *Bombus campestris* on *Scabiosa*
the only ones seen. — P.T.O.

20th Sept. 1933. Powerscourt Sta., Co. WI.

All swept in Alder glen, from mint, meadow, *Eupatorium* etc., 48 m. below deep park entrance, on right bank of river! Shown just before our arrival nearly completely spoiled collecting.

Proctotrupes ♂

very small *Proctotrupes* *Pent.*, with abraded antennae

Colletes *truncatus* ♀ 1 ♀

Andrena *fulvipes* 1 ♀

Diopatra *derocera* 2 large ♂♂ ♀♀

Aspilota 2

Dacnusa *gibripes* ♂♂, 2 ♀♀ 2. *pubescens* (4.16.14.15.16) *truncatus* 9.13.14.15

D. leptogaster? 1 ♀

Aphidius 1 ♀

(Enter 1 ♀ *histrio* *Stenobothrus* & *Stenobothrus* *confusus* *Path.* 1.14.16.17.28)

Diptera *capitata*? 1 ♀ with red bands on sides

Pygostolus 1 ♀

Euclyptus 1 ♂. *Stilpnus* *pygostolus* ♂

Stenomacrus ♀

Proctos 2

24th Sept. 1933. A fine morning, but after shower & thunder at 2 PM. gradually getting colder as NE wind drove back NE wind & rain all the way home. The previous day all wet in Dublin!

Down to Athy & stopped at old sand pits & marsh near Ardagh mill (as usual); then on to Mullagh-creeva woods, etc., & home via Castleknock.

Sand pits & marsh, S. of Ardagh, Athy, Co. KD.

12 min till 1.0 PM. Some sun, windy (NW).

Bombus *agrorum* frequent at *Marjoram* & *Scabiosa* (marsh)

Psithyrus *superbus* ♂♂, very pale, common on *Marjoram* in

first sand pit. *P. campestris* 1 ♂, pale, 2 ♂ with dark

Halictus *laticinctus* 1 very fresh ♀ on *Lychnis* at 2nd sand pit.

Cynodonta ♂ *Geothlypis* *melanostoma* Th. 2 ♀♀

Angitia? 1 ♂

Hemiteles small, bright red abd., 1 ♀

all the flowers 27.9.33

= Kikua Park!

24.9.33 cont. *Trilophium* woods, Kikua demum, Co. KD.
2.0 till 4.0 PM. Collecting fruit spoiled by heavy shower.
Bombus agrorum & *terrestris* frequent; 2♂, 2♂, 21♀ of last seen.
3 *lucorum* 1 found, yellow ♂ (young). 3 *terrestris* 1♂.
Psithyrus rupestris several faded ♂♂. 3 *terrestris* 1 faded.
All on Scabiosa near foot on summit of hill!

Vespa sp. ? (*vulgaris*?) seen.

Phylloscopus collybita ? 1♀. *Phylloscopus* ? 1♀. 2♀♀.

Prunella petiolata 1♂, with few rather rough & not so polished as usual.

Luscinia sibilatrix 1♀.

Stenocranus 1♀. *Acridothera degeneri* 1♀.

Plectrocineta ? *helodonta* 1♂. *terrestris* 1♀. *terrestris* 1♀. (1♀ with 1♂ *terrestris* 1♀.)

Colletes *terrestris* 2♀♀.

Halictus *terrestris* 1♀.

Halictus (2nd *terrestris* very small of *terrestris* 1♀.)

Halictus 1♀ with pale legs & short body (very small?)

Alcyon *terrestris* 2♀♀.

Dacnusa *areolaris* 2♀♀.

Chalcid 1

27th Sept. 1933. A fine afternoon, mild & calm, after several days of dryness; no drying; vegetation too wet to walk. Freshly sown grass & clover in meadow at N.E. corner of lower meadow, Glencamock, Co. Du.
Bombus agrorum 1♀ only seen.

Halictus 4♀♀. 1♂ 3♀♀, small, interesting looking.

Luscinia sibilatrix 1♂. *Prunella* *terrestris* 1♀.

Merula 1♀, not seen.

Prunella *terrestris* 1♀. *Stenocranus* of *terrestris* 1♀ yellowish.

Brachy 1♀. *Colletes* *terrestris* 1♀.

Dacnusa areolaris 1♀, not seen before.

Halictus *terrestris* 1♀. *terrestris* 2♀♀.

Aphidius 2♀♀, with 12-jointed antennae, 1♂.

Proctos 5 + 10 = 15

Cynipid 3.

1st October 1933. Dull, with sea mist & strong chilly E. N.E. wind, all day. Insects very scarce. Drove to Kilmacura & on to meeting of the Waters, Arona, Co. WI. Collected by sweeping for half an hour at N.W. side of Kilmacura demesne & amongst scrub on left bank of Arona, above South Howard railway bridge over river.

11.30 till noon. Rushy area by old road, Kilmacura Co. WI.

Diospilus clavicornis large ♂.

Pteronidea " " "

Agromyza rufipennis? 19. Small head.

Agromyza small head ♂. H. two small heads & small ♂.

Agromyza dark ♂.

Agromyza small head ♂ (candied).

[On the 1st Nov. Mrs. Nora Foster dug up & sent me 3 tiny & fresh eggs of *Agromyza* from a hollow in the sandstone at Portlaoise, Co. Dub.]

Samples sent to Dr. Perkins at end of 1932 season: 2nd lot!

1. *Pteronidea dispar* ♀ ^{Burnham Beeches, Bt. AMG.} 2. *Schionura betulae* (2♀) ^{Burnham Beeches, Bt. AMG.} 3. *Rhogaster anciparis* ^{Ballyhealy, WI. 29.5.32.}

1. *Eura*?? *atra* ^{Bt. AMG.} 2. *Blennocampa tenuicornis* (2♀) ^{gleng the Bt. 29.5.32.} 3. *Phaenocarpa pallidiventris* (albipennis) ♀ ^{gleng the Bt. 29.5.32. AWS.}

1. *Hoplocampa chrysorrhoea* ♂ ^{The Dingle, D.K. 29.7.32.} 2. *Empria tenebraria* ♀ ^{Emmisherry, WI. 20.4.32.} 3. *Blennocampa affinis* ♀ ^{Glencullin, WI. 26.6.32.} 4. *Pristiphora fulvipes* Fall. ♂ ^{Co. WI. 10.7.32.}

1. *Trichocampa cradatus* Hart. 2. *Pristiphora pallidiventris* Fall. ♂. 3. *Dineura testaceipes* ♂ ^{Handley, 29.7.32.} 4. *Pristiphora ruficornis* ♀ ^{Handley, 29.7.32.}

1. *Schionura betulae* ♀ ^{Defunct, Paris, 11.9.32.} 2. *Phaenocarpa ephippium* V. nigraus (2) 3. *Selandria morio*? (V. bad condition) ^{all from here to end taken by Bullock in Killarney district, VK. returned to him on 12.2.1934! AWS.}

1. *Calioa aestiva* ♂ 2. *Trichocampa ephippium*, 3. *Selandria stramineipes* 4. *Sel. temporalis*.

1. *Pristiphora fulvipes* (J. B. S.) bad. 2. *P. pallidiventris* ♀ V. bad 3. *Empria tenebraria* bad 4. *Pachynematus ditellatus* ♀.

Other side of box.

1. *Pristiphora fadi* ♀ var. 2. *Femurella pygmaea*, 3. *Pachynematus vapus*, 4. *Blennocampa tenuicornis* (V. bad).

1. *Bl. tenuicornis*, 2. *Pachynematus vapus* ♀, 3. *Hoplocampa pectoralis* ♀ 4. *Empria* sp? This *Empria* is one of those dull pl. specimens I don't know whether to refer to near *liturata* or to the subg. *Tricempria* near *undulata*.

1. *Nematodes* beetles 2. *Pteronidea myrtilidis* 3. *Hoplocampa pectoralis* 4. *Ametastegia equiseti*.

(taken at Farrinham, Co. Wick, on 12.3.33.)

The *Bombus* appears to me to be an aberration of *lucorum*.

A year or two ago I caught a fresh ♀ in which the yellow bands were nearly white or very pale & the tail much more conspicuous than yours. Richards told me that such a var. was known on the Continent. On the other hand *terrestris* ♀ occasionally occurs with the tail practically like that of *lucorum*, in fact I believe the type (continental) of *terrestris* is this white-tailed form. Hence Smith named the British *terrestris* as *virginialis* Smith. Under the cotton wool is an antenna, which appears to be ^{that of an} aculeate & not belonging to any of the sawflies, & there were no loose antennae in box.

Samples sent to Dr. Perkins at end of 1932 season: 2nd lot!

- ✓ Burnham Beeches, BTX AMG. ✓ Burnham Beeches, BTX AMG. ✓ Ballyhealy, WH 29.5.32.
1. *Pteronidea dispar* ♀, 3. *Schionura betulae* (2♀), 4. *Rhogogaster aucupariae*.

1. *Euura* ?? *atra*. ✓ BTX AMG. 23. *Blennocampa tenuicornis* (2♀) & *Empyridae pallidus* (albipis) ♀
Does not agree with description. Into the gall was apparently this!

1. *Hypocampa chrysorrhoea* 12. 2. *Empria tridens* ♀ 3. *Blennocampa affinis* & *Pristiphora fulvipes* Fall. ♀
The Dingle, Dec. 4.5.32. ✓ Ennisterry, WI. 20.4.32. ✓ Glenullagh, WI. 24.6.32. ✓ Co. An, WI. 30.7.32.

1. *Trichocampus cradatus* Hart. 2. *Pristiphora pallidiventris* Fall. 3. *Empyridae denudata* Kon. 3. *Dineura testaceipes* Fall.
✓ Harold's, 29.7.32. ✓ Harold's, 29.8.32. ✓ meeting of the Waters, WI. 31.7.32. ✓ Glenullagh, WI. 22.6.33.

4. *Pristiphora ruficornis* ♀
all from here to end taken by Bullock in Killarney district, W.K.
Deputy P.M., 11.9.32. returned to him on 12.2.1934! AWS.

1. *Schionura betulae* 2. *Empyridae* 3. *Empyridae* 4. *Selandria morio*? (very bad condition)

1. *Calioa aethiops* 2. *Empyridae* 3. *Selandria stramineipes* 4. *Selandria temproalis*.

1. *Pristiphora fulvipes* (subsp.) bad. 2. *P. pallidiventris* ♀ very bad 3. *Empyridae* Tenes bad, 4. *Pachynematus ditellatus* ♀.

Other side of box.

1. *Pristiphora fadi* ♀ var. 2. *Fenestella pygmaea*, 3. *Pachynematus vagus*, 4. *Blennocampa tenuicornis* (very bad)

1. *Bl. tenuicornis*, 2. *Pachynematus vagus* ♀, 3. *Hypocampa pectoralis* ♀ & *Empria* sp?.

This *Empria* is one of those dull pl specimens I don't know whether to refer to near *liturata* or to the subg. *Triempria* near *undulata*.

1. *Nematodes* 2. *Pteronidea myrtilidis* 3. *Hypocampa pectoralis* 4.

- Ametastegia equiseti*.

(taken at Farnham, CV, on crocus, by B. Farris, on 12.3.33.)

The *Bombus* appears to me to be an aberration of *lucorum*.

A year or two ago I caught a fresh ♀ in which the yellow bands were nearly white or very pale & the tail much more conspicuously stained than yours. Richards told me that such a var. was known on the Continent.

On the other hand *terrestris* ♀ occasionally occurs with the tail practically like that of *lucorum*, in fact I believe the type (continental) of *terrestris* is this white-tailed form. Hence Smith named the British *terrestris* as *virginialis* Smith.

Under the cotton wool is an antenna, which appears to be that of an aculeate

& not belonging to any of the sawflies, &c. there were no loose antennae in box.

10th October 1933. Dull, with sea mist & strong chilly E-N. wind, all day. Dried my series.
Drove to Kilmacurra & on to meeting of the Waters, Arvra, Co. WI. Collected by sweeping for half an hour at N.W. side of Kilmacurra dam & amongst scrub on left bank of Arvra, above Barth Howard railway bridge over river.

11.30 till noon. Rushy area by old road, Kilmacurra, Co. WI.

Diopisus clavicornis large ♂

Pteronotus ♂

Pezomachus rufipes? 1♀. Black head.

Manitella small black ♂. H. two small black & red ♂♂

Calopterus dark ♂.

Calopterus small black ♂ (carded).

[On this date Miss Nora Fisher dug up a nest in 3 living & fresh eggs of *Andrena rosea* from a hollow in the sandstone at Portlaoine, Co. Kerry.]

1.10.33 cont. 2.20 till 4.20 P.M.

Scrub on left bank of Arvra, 1/2 mile above meeting of the Waters, Co. WI.

Tricoma picta? ♀ on hazel.

Aspilota ♀.

Proctos large ♂ & small ♀.

3 *Aspilota*, long petiole, on hazel.

Chalcid.

Chalcid? 1♀

Purple "intype" "185", small ♀. P. "tenuellus" 31 very small ♂.

Atthia lineolata 10?

14th Oct 1933 ^{- See also 4.8.33. p. 185.} A very fine day, but not sunny in aft.
Left bank of R. Liffey, above Athdown footbridge, Co. WI.
Only a few insects taken by sweeping in grass & no *Andrena* seen at all; most *Proctos*. & ich. taken by sweeping hazel, on birch & willow.

Polyblastus 1♀. Purple *Andrena*? 1♂, with hairs "ingrained" (first found).

Stenomacrus ventralis ♂♂ & many ♀♀, mostly on hazel.

P.T.O.

4.10.33 cont. Alderson, G.W. cont.

Bracon longipes ? 1 ♀.

Phaenocarpa confinis 2 ♀♀.

Aphidius 1

Proctos.: *Exochus* spp. very common, but no other *Proctos.* except 2.
= *Exochus* etc. 13 ♀♀ & *E. brevicornis* 1 ♀ from Alderson 1933.

4th Oct. 1933. A beautiful day, but after very low
continuous heavy rain the previous day & evening. There is
something wrong & too hot to creep except in the
windy spots, & most insects killed off. *Exochus* very common
from via Dunbar to road at Rahen, where collected
for an hour, then on to George's Bridge, where collected for
1 1/2 hours on left bank of R. Slaney (below bridge), G.W.
Bombus lucorum found over a log at George's Bridge
15 apr. at Rahen & on way at George's Bridge
Vespa vulgaris ♀♀ on Salix bank at Rahen & abundant
on way from at George's Bridge.
For other hymenoptera see next page.

8.10.33 cont.

Marshy stream-side below Dunbar road at Rahen, G.W.

11.30 - 12.30 noon

Exochus spp.

Stenomacrus 1 ♂

Stenomacrus ♂ of *Stenomacrus* det. ?

Oncophanes [various] 1 ♀ etc., with distinct sternal. Nixon (13/1/1937) names this
♀ "maculipes" Thom. ? A.W.S.

Aphidius *salicis* 1 ♂.

Chalcid 2 ♂♂. 1 ♂, 1 ♀ with dark wings.

Phaenocarpa 2.

Chalcid 1. *Cynipid* 1.

8.10.33 (aft.) cont.

Marshy fields & scrub, on left bank of R. Slaney, below
George's & Waterloo bridges, G.W. 1.30 to 3.0 PM.

Promethes *fulvipes* 1 ♀.

40 ♂♂, 2 ♀♀, 6 imago ♂♂ =

Hemiteles 1 ♀ (antid.).

Pezomachus *parvulus* 1 ♂. P of 1 ♂, 1 ♀, 1 ♂, 1 ♀.

Stenomacrus *cellulatus* ? 1 ♀.

Helorus 1 ♂.

Mesochorus 1 ♂.

8-10-33 cont. George's Bridge, Co. WI. cont.
Phaenocarpa 5 =

Cynipid 1

Chalcid 1

9th Oct 1933. *Hemiteles* 1 ♀ taken in ditch, 1/2 Kilworth Rd., Co. DU.

11th Oct 1933. A fine afternoon, but not formal, warm about 2 to 10 insects.

Ennisbeg, Co. WI. 3.0 till 4.0 P.M.

Left a few minutes in marsh between upper & lower road (=1) & also a few in wood near old track ends in wood.

Dacnusa areolaris 2♀♀ at 2.

Meteorus pubescens 1♂ at 1.
 or *scutellator*?

Aspilota 2♂♂ *Aspilota instabilis*? 1♂, " at 2.

Hemiteles 2♀♀ (2♀♀) =

Pezomachus 1♀

Plectiscus 1♂.

Proctos 3.

Verpa vulgaris 4♀♀ seen at 2, but no *Bombus*!

22nd Oct 1933. A dull warm day, with some mist, in Ballylusk, Co. WI. 12.30 noon till 3.0 P.M.

Too wet to keep up in field & few insects out & did not collect much as with D. & K. Kavanagh & had to wait at motor!

Meteorus 1♀

Pimpla 1♀ *dentata* 1♀, small

in the net

Leucospis sulph. 1♀, 1♂, in ditch, edge of wood.

All taken in wood edge of wood.

29th Oct 1933. A mild day, but storm stopped collecting. 11.30 till 12.30 noon.

Ferry Glen, Phoenix Park, Co. DU. between pond & road above.

Verpa vulgaris 4♀♀ (2 some 8-10) in extraordinary abundance in very flower: mostly *Aspilota* & 1♂ taken in all night.

Hemiteles areolaris? 1♀ taken off blackthorn.

Pimpla "inquinator" nit. 3 small ♀♀ taken off very flower.

Aspilota 1♀ = *Aspilota areolaris*!

Aspilota 1 large ♀ on very.

Dacnusa areolaris 1♀ only: on net.

Proctos 1♀.

8th Nov 1933. A fine afternoon.

Lane & fields above St. Columba College,

N. slope of Kilmahogue, Co. DU. 2.30 - 4.0 PM.

Vespa germanica? 1♂ } many ♀♀ in wing, but spec.
V. vulgaris } not examined: mostly vulgaris.

Two proctos swept in small marsh, off road, etc.,
 along upper margin of old cultivated area, ca. 800 ft.

12th Nov. 1933. Glencullen, just above county
 boundary, Co. DU. Noon - 1.0 PM. Very sunny.

Beaten off wing Hymenoptera near bridge.

Hermitia ♀, off wing

[*Stelisma* also in tube, but I don't remember collecting this
 - Glencullen & fear it must have been in lower tube
 for some time, therefore? locality.]

Proctos, off wing.

Vespa vulgaris ♀♀.

22nd Nov 1933. A gloomy day, after night's frost.

Lane behind St. Columba's College, Co. DU.

Vespa vulgaris 1♀ beaten out of wing, very torpid, & hundreds
 of ♀♀, probably this species.

Hymenoptera sent by Mr. J. E. Lucas, collected
 in West bank & River during 1932.

<i>Colletes</i>	1 ♀	<i>Colletes</i>	1 ♂
<i>Halictus</i>	1 ♂	<i>Halictus</i>	1 ♂
<i>Bombus</i>	1 ♂	<i>Bombus</i>	1 ♂
<i>Andrena</i>	1 ♂	<i>Andrena</i>	1 ♂
<i>Psithyrus</i>	1 ♂	<i>Psithyrus</i>	1 ♂

Old Head of Kilmahogue, 29/3/33.
 Rossmore, WC.
 Tinnahogue, WC.

Phygadeuon 3 seen
 24 Tinnahogue, WC.

Phygadeuon 1 ♂
 Tinnahogue, WC.

Phygadeuon 1 ♂
 Tinnahogue, WC.

26th Nov. 1933. A dull cold morning! Foggy & mist.
Phoenix Park, Co. Du., near the Custom Gate.
Apanteles - ♀, beaten out of *Quercus* *Illex*.
The only hymenoptera seen. Noisy - the park of poets!

6th Dec. 1933. W. side of Kilmashogue, Co. Dubl.
A dull, dry day! 3 till 4 PM.
Vespa (vulgaris?) 1 ♀ seen at ing. along lane.
Chalcid beaten out of Surt's Fir on hillside.
Pimpla maculator 1 ♀ beaten out of Surt's Fir.

17th Dec. 1933. A dull chilly morning. 11 till 12 noon.
Lane, etc., behind St. Columba's College, N. slope
of Kilmashogue, Co. Du.
Vespa (vulgaris?) only one ♀ seen at ing, no doubt
due to time of day & chilly wind (E).
Chalcid beaten out of Holly.
Cynipid 1

NB. An extraordinarily dry December, only one really wet
day (a Saturday - 2nd 94), but mainly dull & cool,
while England had snow & severe frost. Hills
covered with snow after 9th 12. Still a few
patches left on Xmas Day.

25th Dec. 1933. Very mild, with falling barometer
& threatening rain from SW. 11 till 12.30 noon.
Boghsleagh Glen, Upper Liffey, Co. WI.
A few insects beaten out of Spruce (covered by lichen)
in glen!
Pimpla maculator several ♀♀ (now kept).
P. examinator 1 ♀ & 1 ♂.
Exochus? 1 ♀.
Stenomacrus ruficornis 1 ♂!!! with all black markings on abdomen.
Chalcid beaten out of 2 fir kept.

Proctos 1. *Cynipid* 1 only kept.

List of saplings taken by Miss Scott & named by
L. R. C. & Perkins, dated 17.9.1934.

Trichogramma (sp. of *Evania* list) } *Pontania leucophaea* ♀
Belonocnema, Co. Du. 26.5.33. } Glencree, WI. 14.5.33.

Parasitism of ♀ of *apicula* & *maurici*.
Head of *Parasitism* kept, old history, Co. WI. 19.5.33.
Phaenocarpa leionota Benson ♀. Supt off Liffey, Glencree, Co. WI.
112.5.33.

Taken by J. N. Halliart.
Nematostoma sp. ♀ "intermediate between *lutea* & *luteolata*."
Glencree, Co. Du. 14.6.1934

